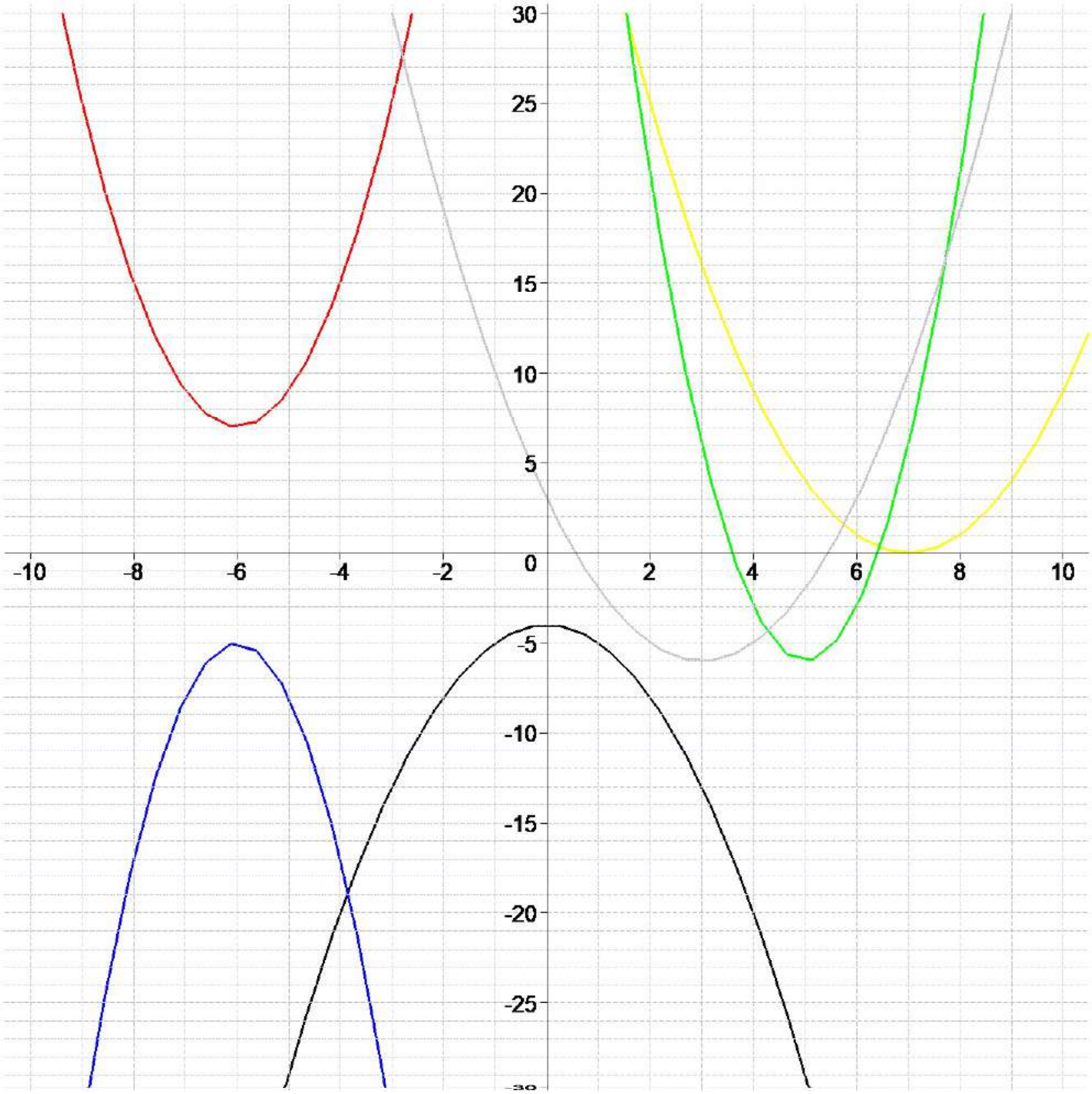
Function03 for No.10044

$$No1 = \begin{bmatrix} .1 = [y = x^2 - 6x + 3] & .3 = [y = 3(x-5)^2 - 6] & .5 = [y = -x^2 - 4] \\ .2 = [y = -3x^2 - 36x - 113] & .4 = [y = (x-7)^2] & .6 = [y = 2(x+6)^2 + 7] \end{bmatrix}$$



$$No2 = (f(x) = -x^2 + 18x - 81), \quad , No3 = (f(x) = x^2 + 10x + 24)$$

$$No4 = (f(x) = x^2 - 1), \quad , No5 = (f(x) = -x^2 + 49)$$

$$No6 = (p = 100 - 0.6x)$$

```
No7 : N  = 70    ,
    : P1 = 4000  , P2 = 4200  , P3 = 4400  ,
    : B  = 200   , M  = 395200
No8 : P  = 7     , L  = 10    , A  = 144   , D  = 21
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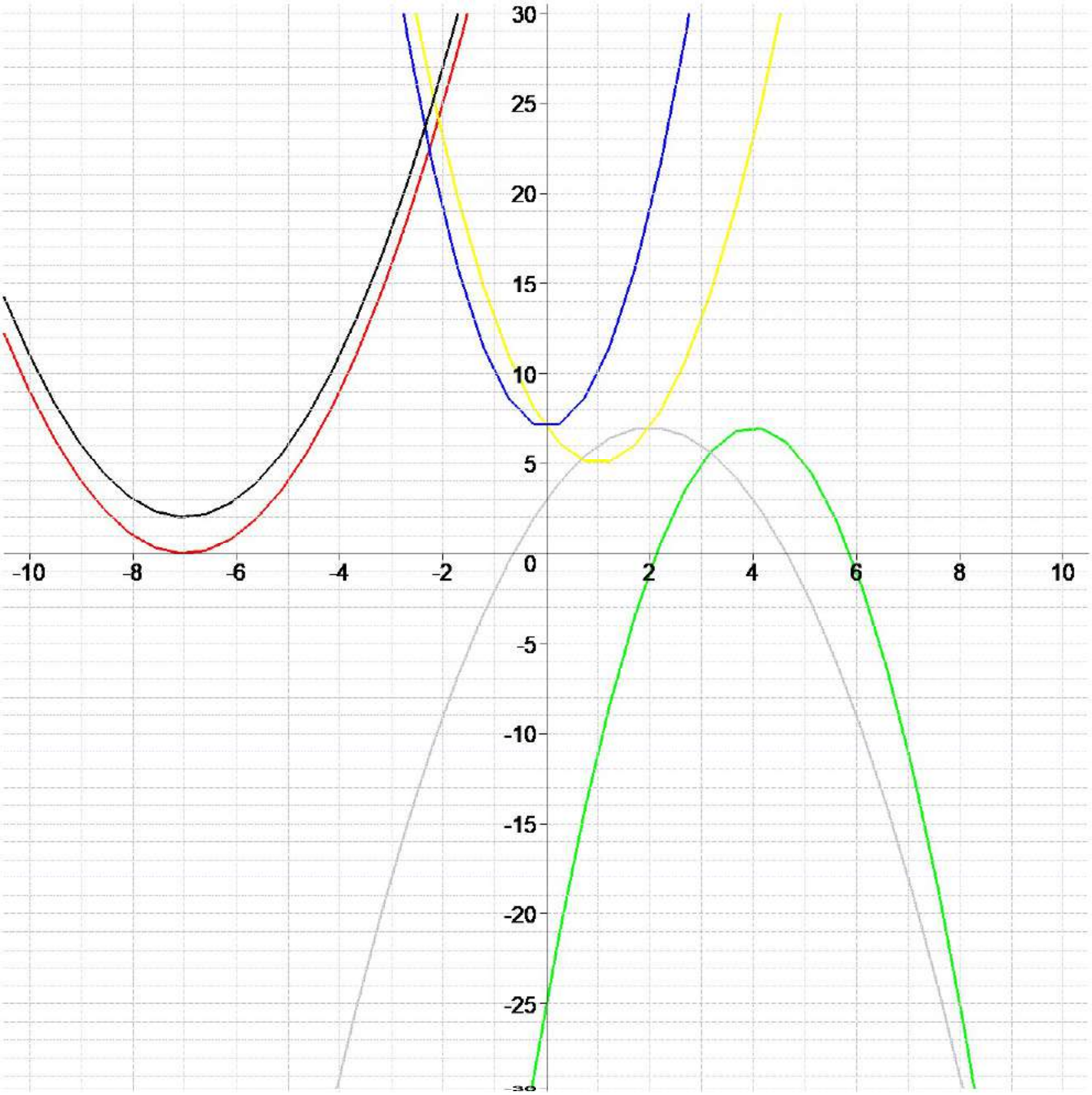
Function03 for No.10127

$$No1 = \begin{bmatrix} .1 = [y = x^2 + 14\,x + 51] & .3 = [y = 2\,(x-1)^2 + 5] & .5 = [y = -2\,(x-4)^2 + 7] \\ .2 = [y = 3\,x^2 + 7] & .4 = [y = -(x-2)^2 + 7] & .6 = [y = x^2 + 14\,x + 49] \end{bmatrix}$$



$$No2 = (\mathrm{f}(x) = x^2 - 2\,x - 48), \quad , No3 = (\mathrm{f}(x) = -x^2 + 2\,x + 3)$$

$$No4 = (\mathrm{f}(x) = x^2 - 10\,x + 16), \quad , No5 = (\mathrm{f}(x) = -x^2 + 10\,x - 25)$$

$$No6 = (p = 400 - 0.5\,x)$$

```
No7 : N  = 120   ,
    : P1 = 6000  , P2 = 6500  , P3 = 7000  ,
    : B  = 500   , M  = 1417500
No8 : P  = 9     , L  = 10    , A  = 49    , D  = 27
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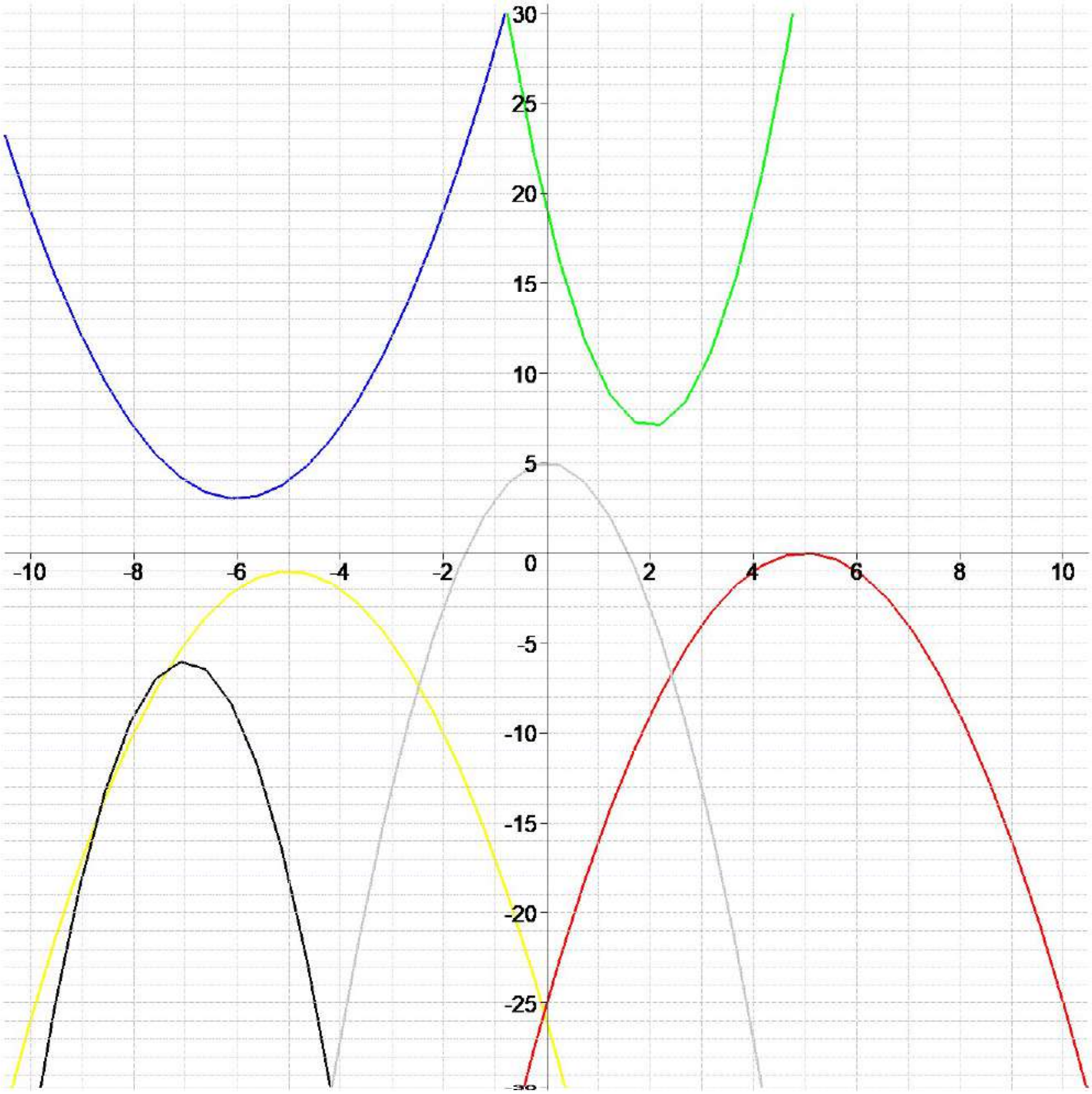
Function03 for No.10305

$$No1 = \begin{bmatrix} .1 = [y = -2x^2 + 5] & .3 = [y = -(x-5)^2] & .5 = [y = 3(x-2)^2 + 7] \\ .2 = [y = -3x^2 - 42x - 153] & .4 = [y = -x^2 - 10x - 26] & .6 = [y = x^2 + 12x + 39] \end{bmatrix}$$



$$No2 = (f(x) = x^2 - 16x + 64), \quad , No3 = (f(x) = x^2 + 10x + 21)$$

$$No4 = (f(x) = -x^2 - 4x + 12), \quad , No5 = (f(x) = x^2 + 8x + 15)$$

$$No6 = (p = 300 - 0.3x)$$

```
No7 : N  = 120   ,
    : P1 = 4000  , P2 = 4200  , P3 = 4400  ,
    : B  = 200   , M  = 748800
No8 : P  = 9     , L  = 15    , A  = 16    , D  = 117
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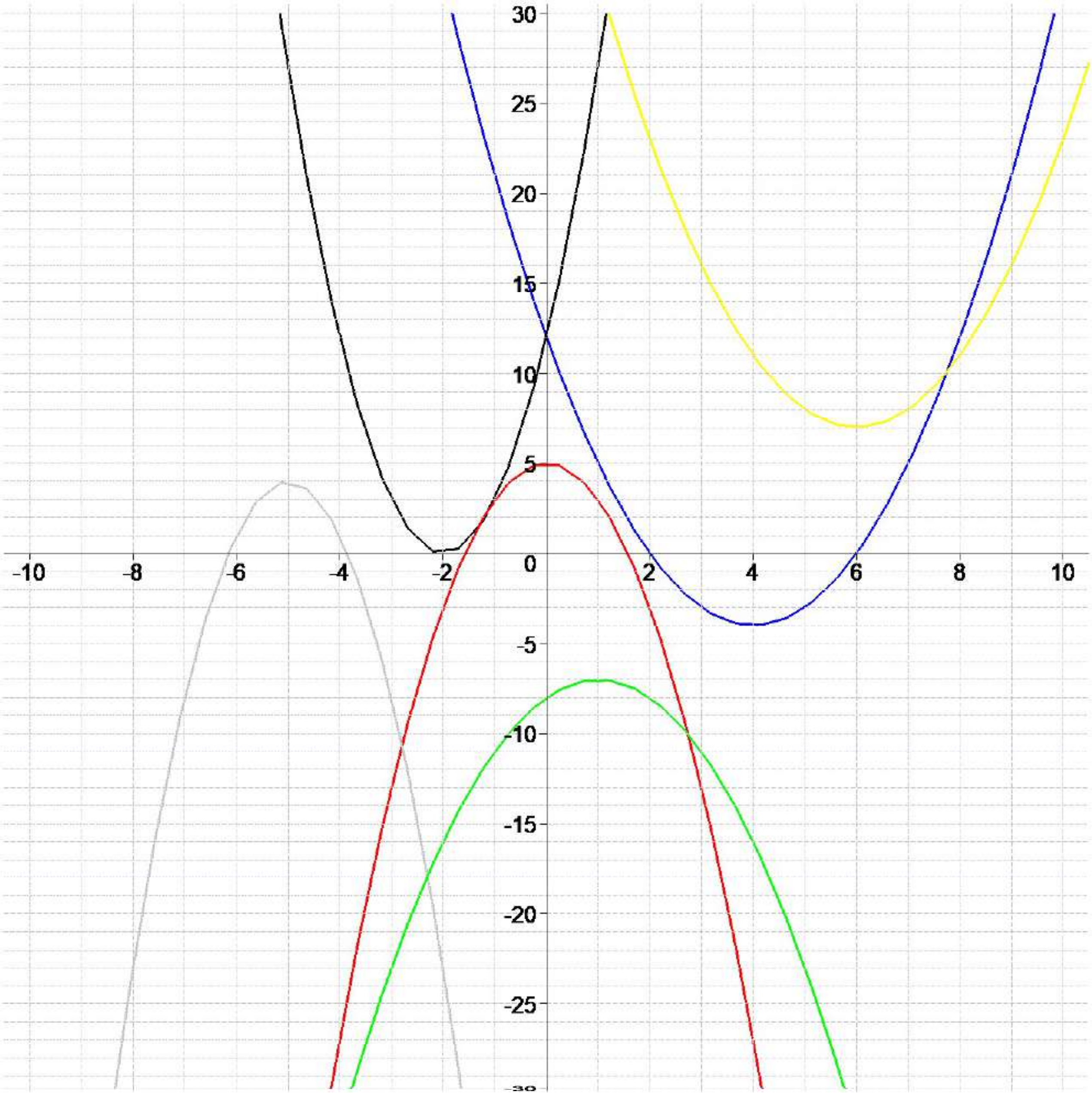
Function03 for No.10491

$$No1 = \begin{bmatrix} .1 = [y = -x^2 + 2x - 8] & .3 = [y = -2x^2 + 5] & .5 = [y = 3(x+2)^2] \\ .2 = [y = -3x^2 - 30x - 71] & .4 = [y = (x-6)^2 + 7] & .6 = [y = (x-4)^2 - 4] \end{bmatrix}$$



$$No2 = (\mathrm{f}(x) = -x^2 + 6x), \quad , No3 = (\mathrm{f}(x) = x^2 + 14x + 49)$$

$$No4 = (\mathrm{f}(x) = x^2 - 2x - 8), \quad , No5 = (\mathrm{f}(x) = x^2 + 10x + 24)$$

$$No6 = (p = 300 - 0.1x)$$

```
No7 : N  = 70     ,
    : P1 = 6000   , P2 = 6300   , P3 = 6600   ,
    : B  = 300    , M  = 602700
No8 : P  = 5      , L  = 7      , A  = 100    , D  = 60
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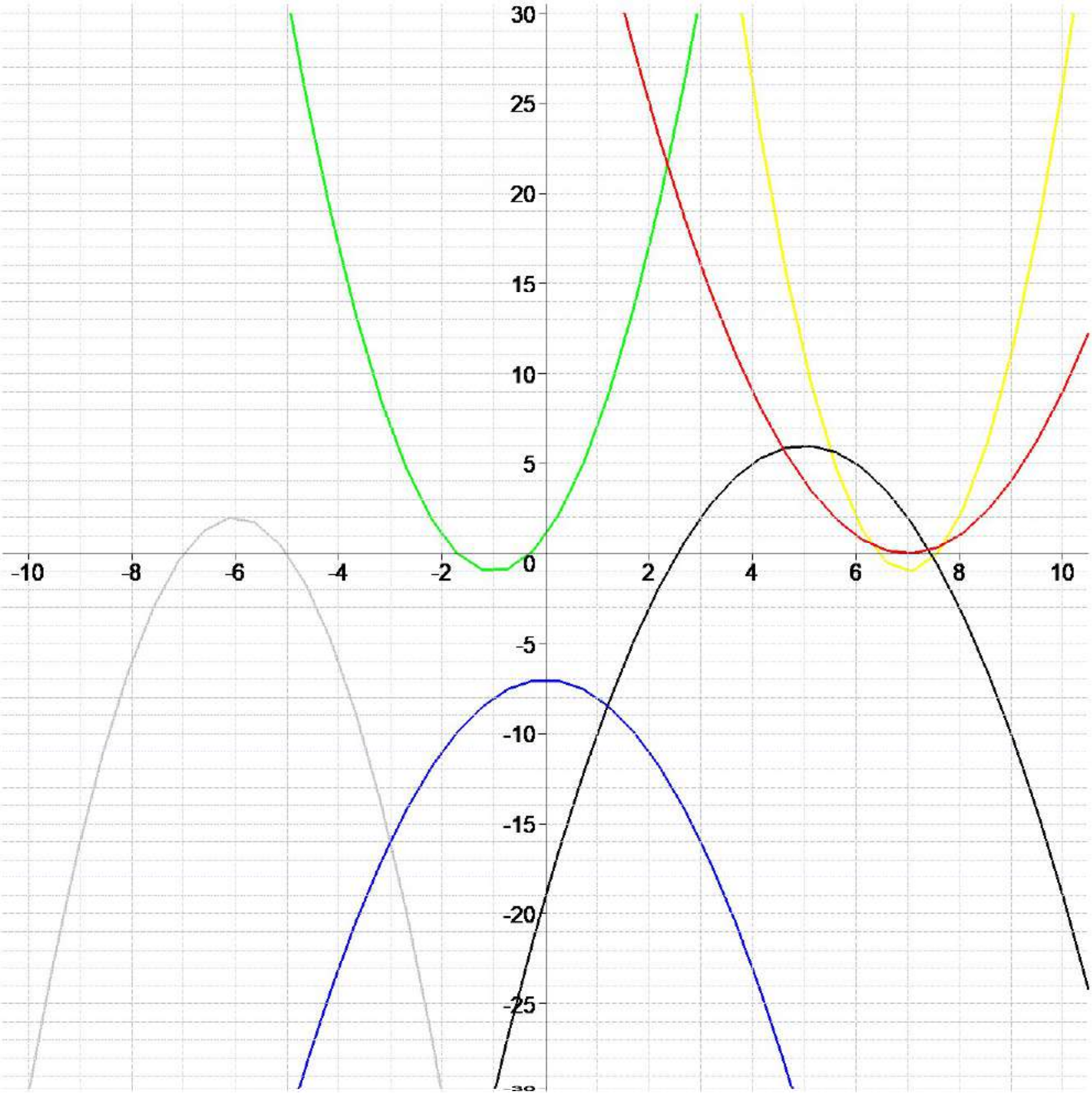
Function03 for No.10782

$$No1 = \begin{bmatrix} .1 = [y = (x-7)^2] & .3 = [y = -(x-5)^2 + 6] & .5 = [y = 3x^2 - 42x + 146] \\ .2 = [y = -x^2 - 7] & .4 = [y = 2x^2 + 4x + 1] & .6 = [y = -2(x+6)^2 + 2] \end{bmatrix}$$



$$No2 = (f(x) = x^2 - 2x), \quad , No3 = (f(x) = x^2 + 16x + 64)$$

$$No4 = (f(x) = -x^2 - 2x + 35), \quad , No5 = (f(x) = -x^2 - 2x + 3)$$

$$No6 = (p = 600 - 0.7x)$$

```
No7 : N  = 100   ,
    : P1 = 6000  , P2 = 6200  , P3 = 6400  ,
    : B  = 200   , M  = 805800
No8 : P  = 1     , L  = 5     , A  = 25    , D  = 6
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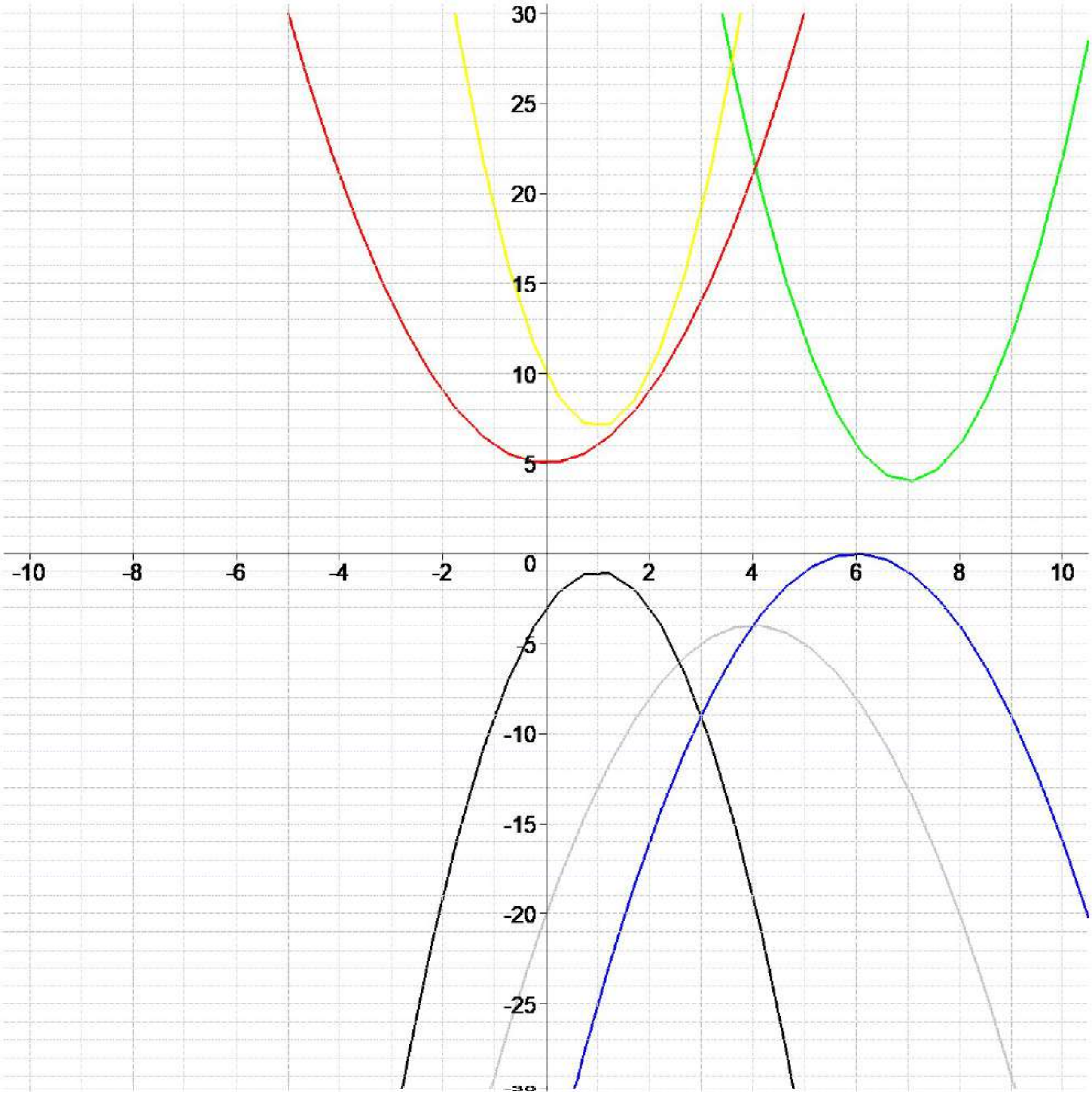
Function03 for No.11040

$$No1 = \begin{bmatrix} .1 = [y = x^2 + 5] & .3 = [y = 3\,(x-1)^2 + 7] & .5 = [y = -2\,x^2 + 4\,x - 3] \\ .2 = [y = -x^2 + 12\,x - 36] & .4 = [y = 2\,(x-7)^2 + 4] & .6 = [y = -(x-4)^2 - 4] \end{bmatrix}$$



$$No2 = (\mathrm{f}(x) = x^2 + 10\,x + 21), \quad , No3 = (\mathrm{f}(x) = -x^2 + 14\,x - 49)$$

$$No4 = (\mathrm{f}(x) = x^2 + 4\,x - 32), \quad , No5 = (\mathrm{f}(x) = -x^2 + 12\,x - 35)$$

$$No6 = (p = 500 - 0.1\,x)$$

```
No7 : N  = 110    ,
    : P1 = 5000   , P2 = 5500   , P3 = 6000   ,
    : B  = 500    , M  = 1000000
No8 : P  = 8      , L  = 17     , A  = 121    , D  = 72
```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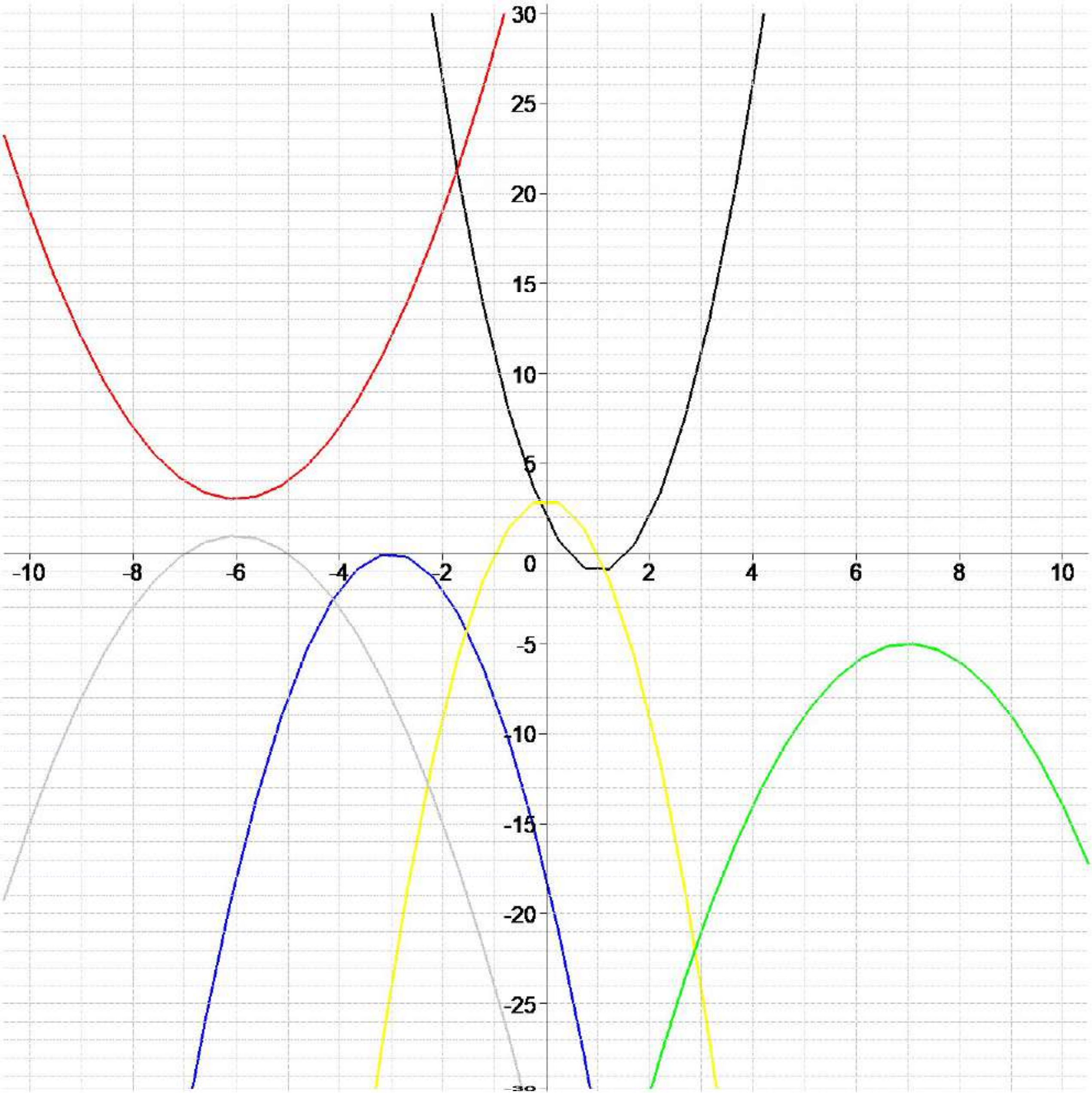
Function03 for No.11048

$$No1 = \begin{bmatrix} .1 = [y = -(x-7)^2 - 5] & .3 = [y = -3x^2 + 3] & .5 = [y = x^2 + 12x + 39] \\ .2 = [y = -x^2 - 12x - 35] & .4 = [y = -2x^2 - 12x - 18] & .6 = [y = 3(x-1)^2 - 1] \end{bmatrix}$$



$$No2 = (f(x) = x^2 + 2x - 48), \quad , No3 = (f(x) = -x^2 - 2x + 8)$$

$$No4 = (f(x) = -x^2 - 18x - 81), \quad , No5 = (f(x) = -x^2 - 6x)$$

$$No6 = (p = 300 - 0.2x)$$

```
No7 : N  = 110   ,
    : P1 = 3000  , P2 = 3300  , P3 = 3600  ,
    : B  = 300   , M  = 691200
No8 : P  = 9     , L  = 10    , A  = 64    , D  = 72
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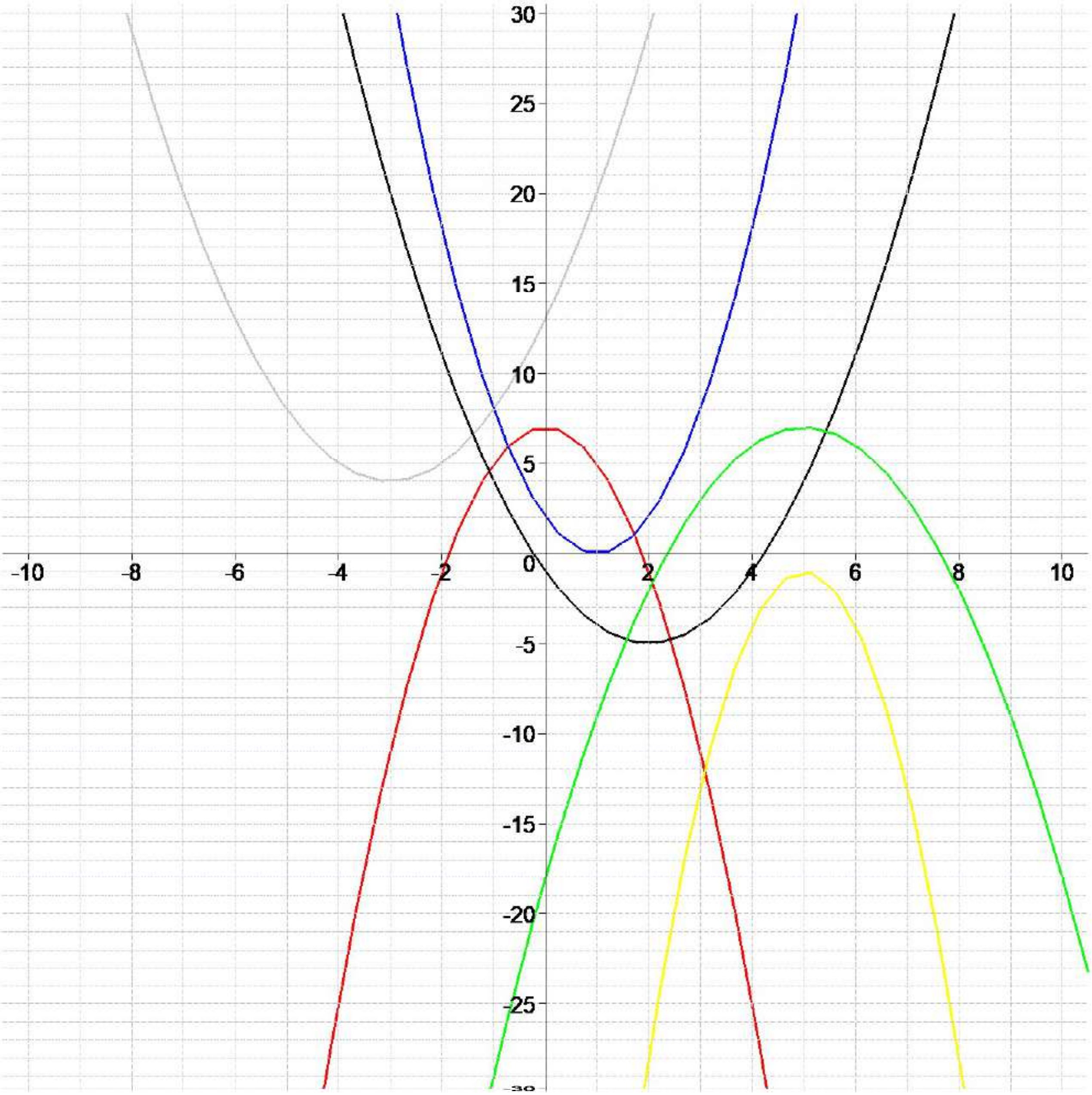
Function03 for No.11107

$$No1 = \begin{bmatrix} .1 = [y = 2x^2 - 4x + 2] & .3 = [y = -(x-5)^2 + 7] & .5 = [y = -2x^2 + 7] \\ .2 = [y = -3x^2 + 30x - 76] & .4 = [y = x^2 - 4x - 1] & .6 = [y = (x+3)^2 + 4] \end{bmatrix}$$



$$No2 = (\text{f}(x) = -x^2 + 10x - 24), \quad , No3 = (\text{f}(x) = -x^2 + 18x - 81)$$

$$No4 = (\text{f}(x) = -x^2 + 2x + 35), \quad , No5 = (\text{f}(x) = x^2 - 4)$$

$$No6 = (p = 600 - 0.7x)$$

```
No7 : N  = 80    ,
    : P1 = 6000  , P2 = 6500  , P3 = 7000  ,
    : B  = 500   , M  = 913500
No8 : P  = 2     , L  = 3     , A  = 100   , D  = 12
```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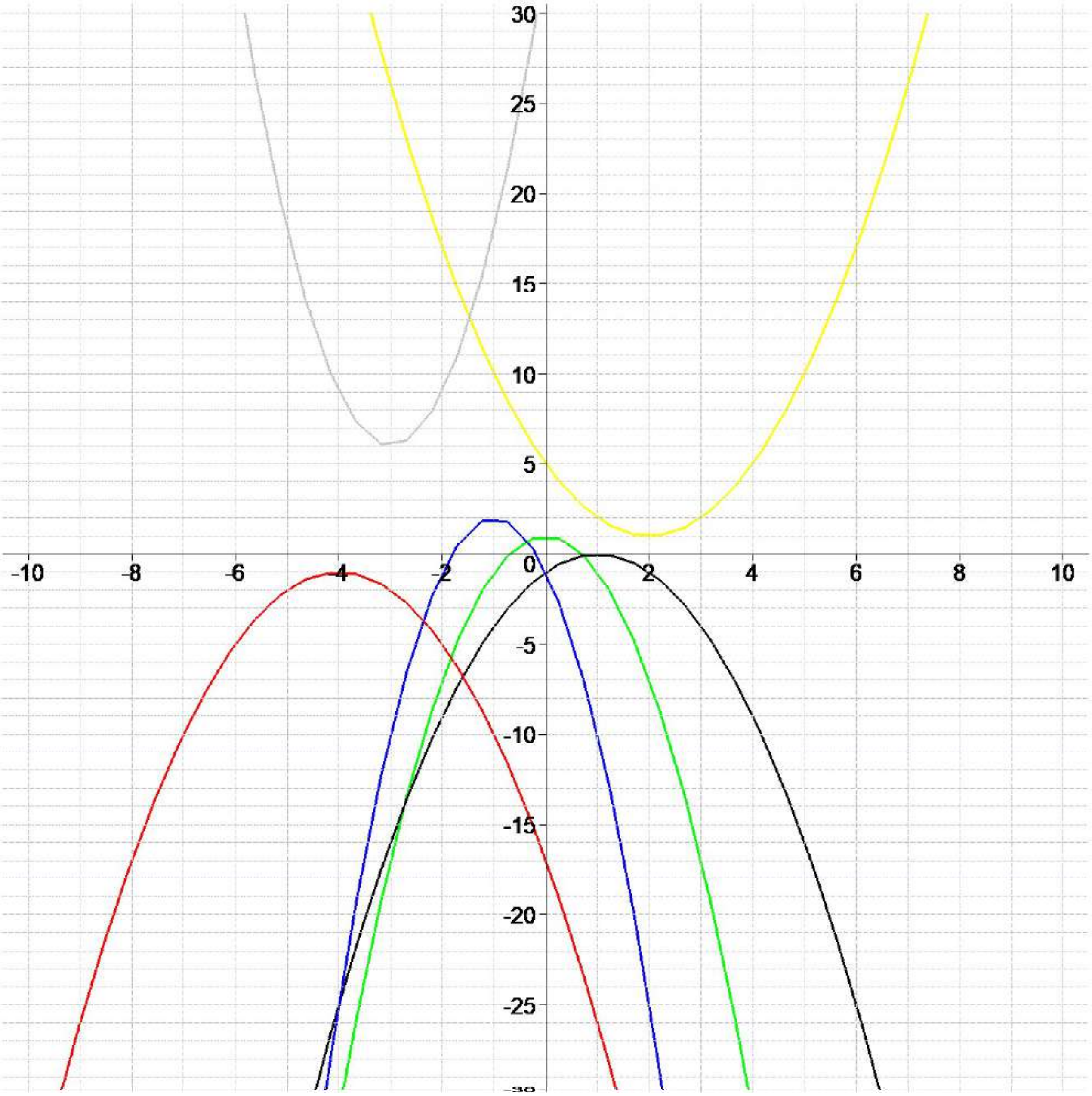
Function03 for No.11419

$$No1 = \begin{bmatrix} .1 = [y = -x^2 - 8x - 17] & .3 = [y = -3x^2 - 6x - 1] & .5 = [y = (x-2)^2 + 1] \\ .2 = [y = 3x^2 + 18x + 33] & .4 = [y = -(x-1)^2] & .6 = [y = -2x^2 + 1] \end{bmatrix}$$



$$No2 = (f(x) = x^2 - 10x + 24), \quad , No3 = (f(x) = -x^2 - 10x - 25)$$

$$No4 = (f(x) = -x^2 - 4x + 5), \quad , No5 = (f(x) = x^2 + 6x - 27)$$

$$No6 = (p = 700 - 0.4x)$$

```
No7 : N  = 130   ,
    : P1 = 7000  , P2 = 7500  , P3 = 8000  ,
    : B  = 500   , M  = 1579500
No8 : P  = 9     , L  = 14    , A  = 81    , D  = 63
```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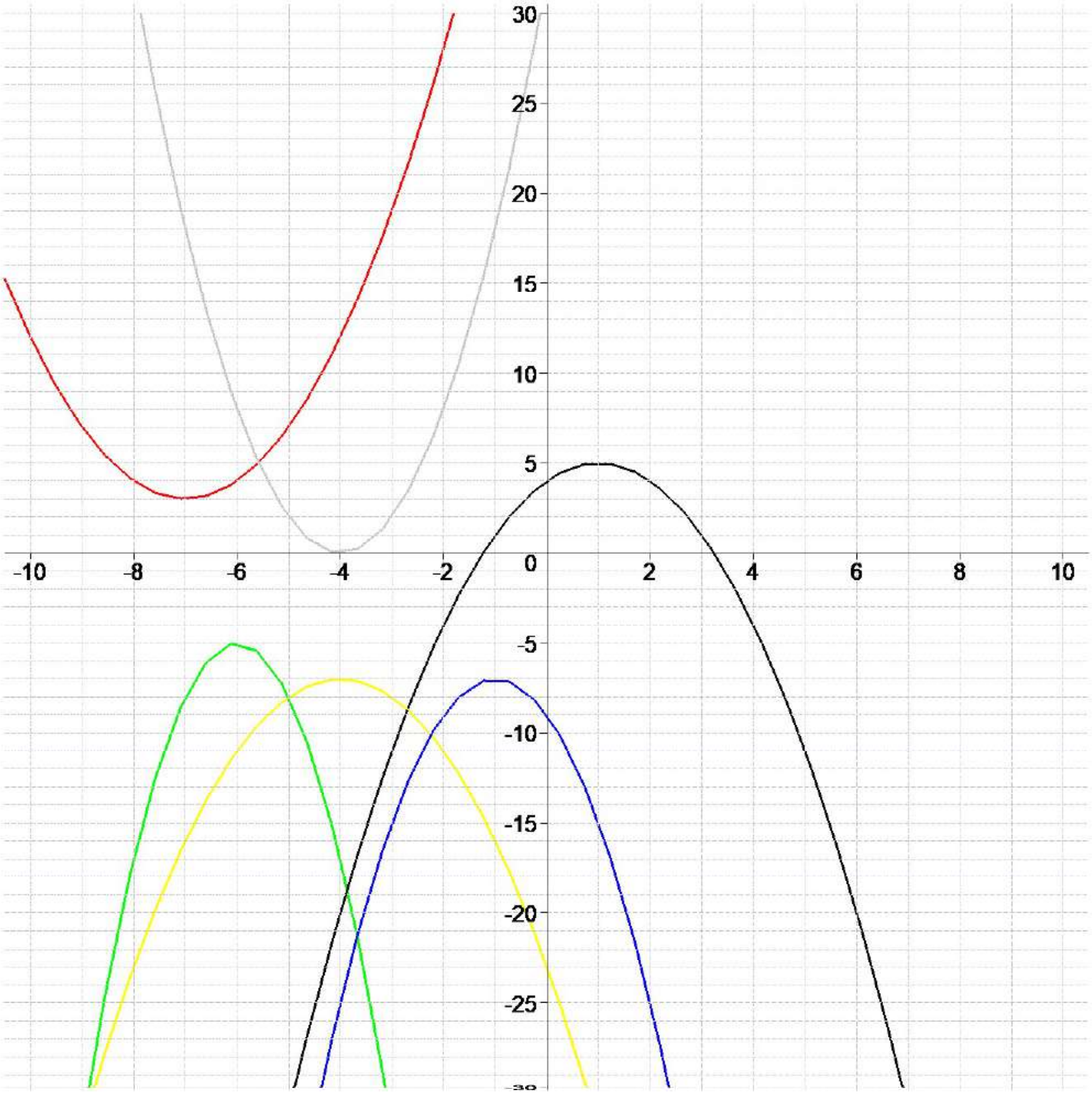
Function03 for No.11424

$$No1 = \begin{bmatrix} .1 = [y = 2x^2 + 16x + 32] & .3 = [y = (x+7)^2 + 3] & .5 = [y = -x^2 + 2x + 4] \\ .2 = [y = -2(x+1)^2 - 7] & .4 = [y = -x^2 - 8x - 23] & .6 = [y = -3(x+6)^2 - 5] \end{bmatrix}$$



$$No2 = (f(x) = x^2 - 4x + 3), \quad , No3 = (f(x) = -x^2 + 4x - 4)$$

$$No4 = (f(x) = x^2 - 10x + 21), \quad , No5 = (f(x) = -x^2 + 12x - 32)$$

$$No6 = (p = 200 - 0.1x)$$

```
No7 : N  = 100   ,
    : P1 = 3000  , P2 = 3300  , P3 = 3600  ,
    : B  = 300   , M  = 672300
No8 : P  = 11    , L  = 18    , A  = 64    , D  = 110
```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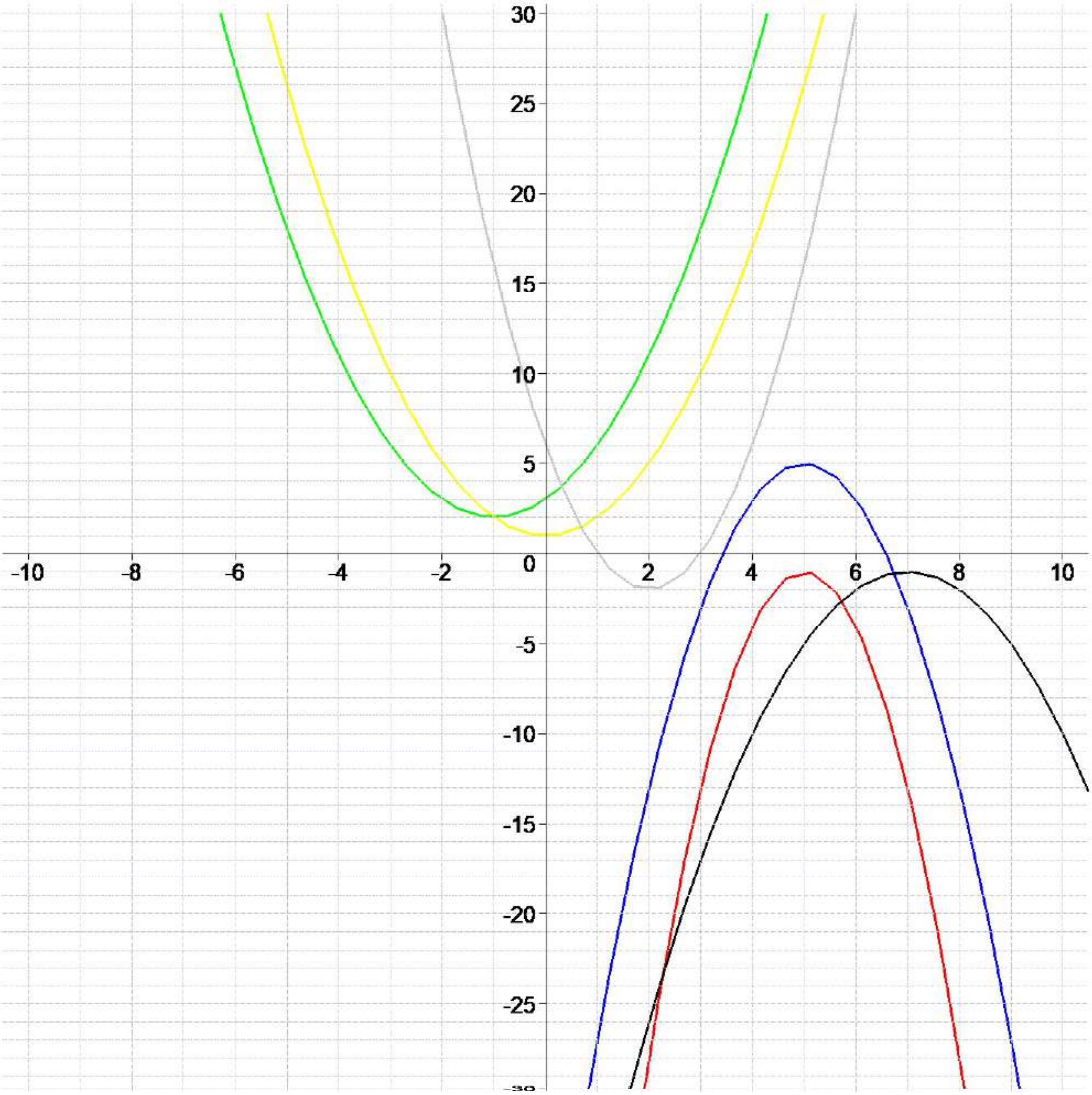
Function03 for No.11470

$$No1 = \begin{bmatrix} .1 = [y = 2x^2 - 8x + 6] & .3 = [y = -(x-7)^2 - 1] & .5 = [y = -2x^2 + 20x - 45] \\ .2 = [y = x^2 + 1] & .4 = [y = -3(x-5)^2 - 1] & .6 = [y = (x+1)^2 + 2] \end{bmatrix}$$



$$No2 = (f(x) = x^2 - 10x + 21), \quad , No3 = (f(x) = x^2 - 10x + 9)$$

$$No4 = (f(x) = -x^2 + 2x + 8), \quad , No5 = (f(x) = x^2 - 10x + 25)$$

$$No6 = (p = 400 - 0.7x)$$

```
No7 : N  = 120   ,
    : P1 = 4000  , P2 = 4200  , P3 = 4400  ,
    : B  = 200   , M  = 775200
No8 : P  = 9     , L  = 10    , A  = 100   , D  = 90
```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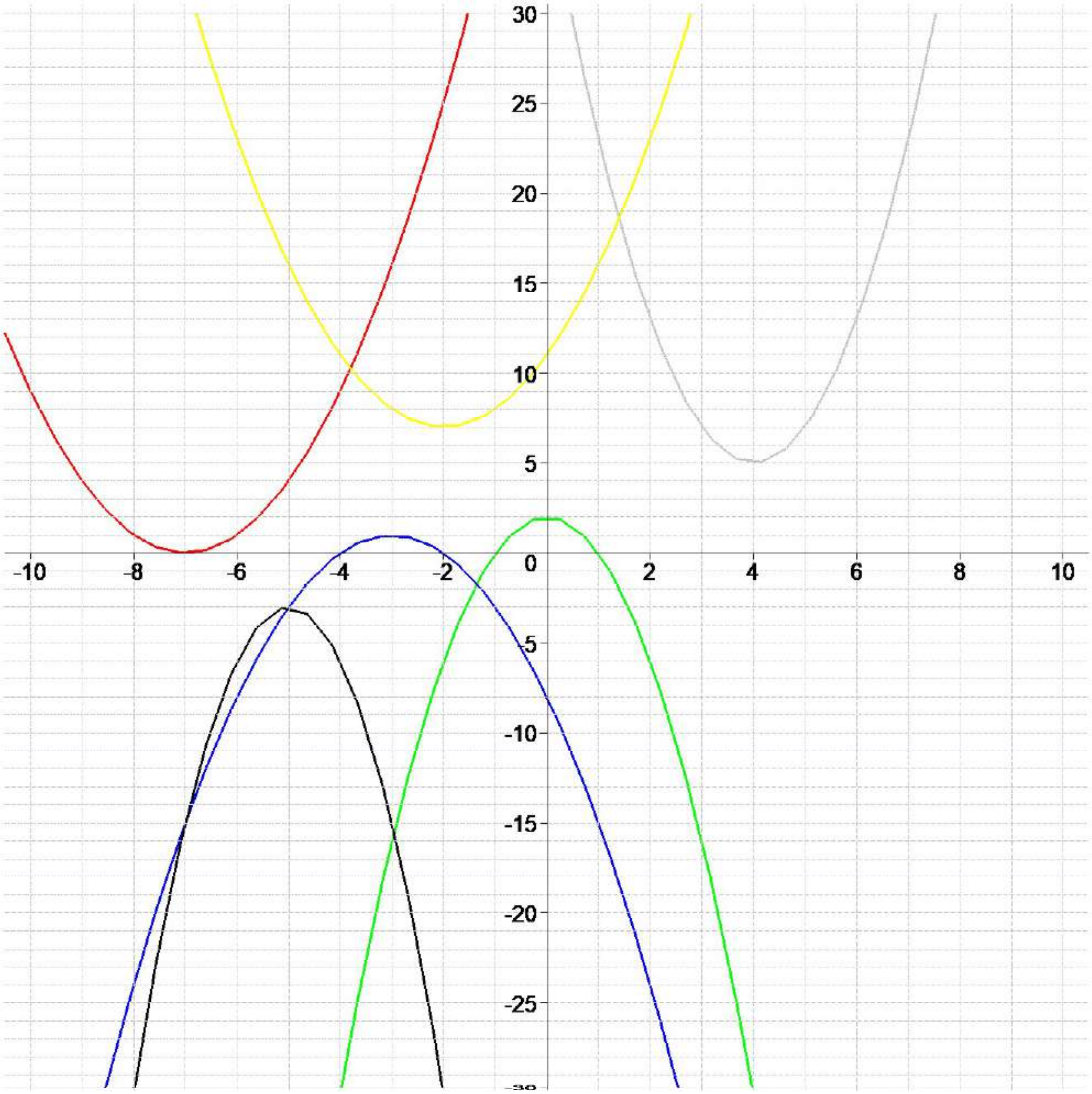
Function03 for No.11472

$$No1 = \begin{bmatrix} .1 = [y = x^2 + 4x + 11] & .3 = [y = 2(x-4)^2 + 5] & .5 = [y = -(x+3)^2 + 1] \\ .2 = [y = x^2 + 14x + 49] & .4 = [y = -3x^2 - 30x - 78] & .6 = [y = -2x^2 + 2] \end{bmatrix}$$



$$No2 = (f(x) = x^2 - 10x + 25), \quad , No3 = (f(x) = -x^2 + 8x - 12)$$

$$No4 = (f(x) = x^2 + 12x + 35), \quad , No5 = (f(x) = x^2 - 9)$$

$$No6 = (p = 500 - 0.3x)$$

```
No7 : N  = 110    ,
    : P1 = 4000   , P2 = 4400   , P3 = 4800   ,
    : B  = 400    , M  = 831600
No8 : P  = 7      , L  = 18     , A  = 36     , D  = 49
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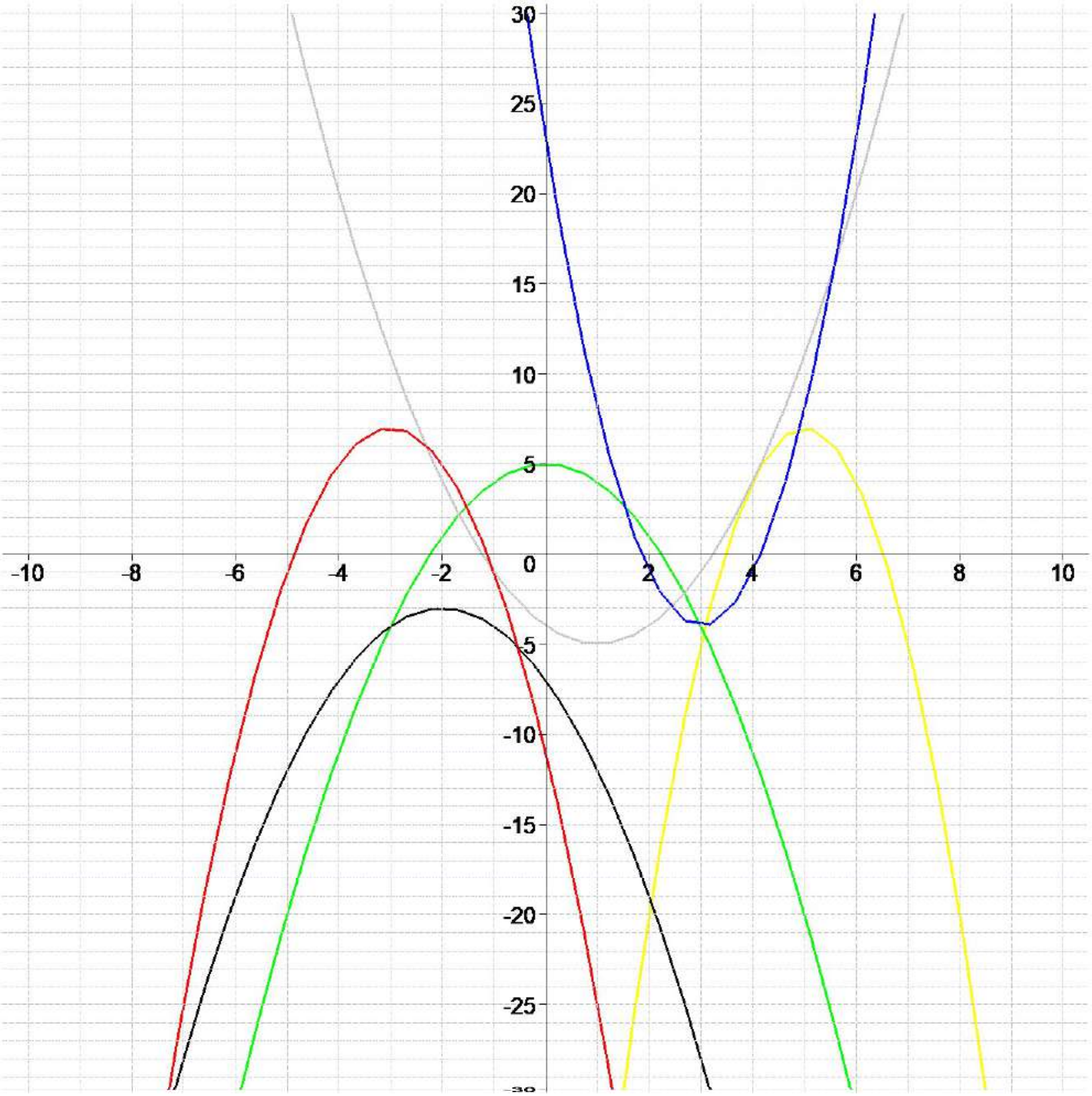
Function03 for No.11523

$$No1 = \begin{bmatrix} .1 = [y = 3x^2 - 18x + 23] & .3 = [y = (x-1)^2 - 5] & .5 = [y = -x^2 + 5] \\ .2 = [y = -2(x+3)^2 + 7] & .4 = [y = -(x+2)^2 - 3] & .6 = [y = -3x^2 + 30x - 68] \end{bmatrix}$$



$$No2 = (f(x) = -x^2 - 2x), \quad , No3 = (f(x) = x^2 + 4x - 32)$$

$$No4 = (f(x) = x^2 - 16x + 64), \quad , No5 = (f(x) = x^2 - 4x - 32)$$

$$No6 = (p = 300 - 0.7x)$$

```
No7 : N  = 130    ,
    : P1 = 4000   , P2 = 4500   , P3 = 5000   ,
    : B  = 500    , M  = 1180000
No8 : P  = 6      , L  = 7      , A  = 36     , D  = 78
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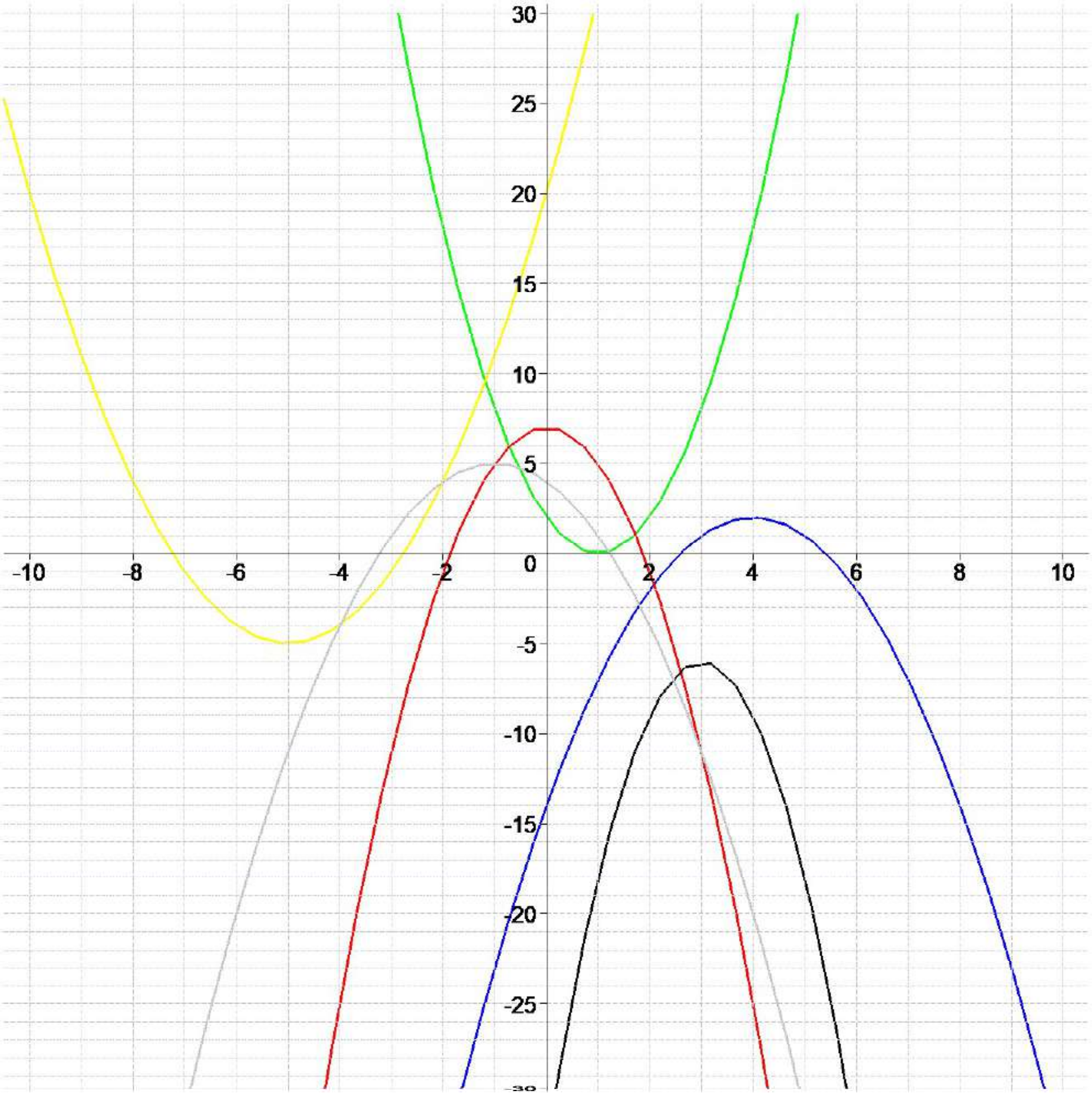
Function03 for No.11549

$$No1 = \begin{bmatrix} .1 = [y = -(x+1)^2 + 5] & .3 = [y = -2x^2 + 7] & .5 = [y = -x^2 + 8x - 14] \\ .2 = [y = -3(x-3)^2 - 6] & .4 = [y = x^2 + 10x + 20] & .6 = [y = 2(x-1)^2] \end{bmatrix}$$



$$No2 = (f(x) = x^2 - 8x + 7), \quad , No3 = (f(x) = -x^2 + 4x + 12)$$

$$No4 = (f(x) = x^2 - 12x + 35), \quad , No5 = (f(x) = x^2 - 12x + 36)$$

$$No6 = (p = 300 - 0.5x)$$

```
No7 : N  = 80    ,
    : P1 = 6000  , P2 = 6600  , P3 = 7200  ,
    : B  = 600   , M  = 975000
No8 : P  = 10    , L  = 19    , A  = 25    , D  = 80
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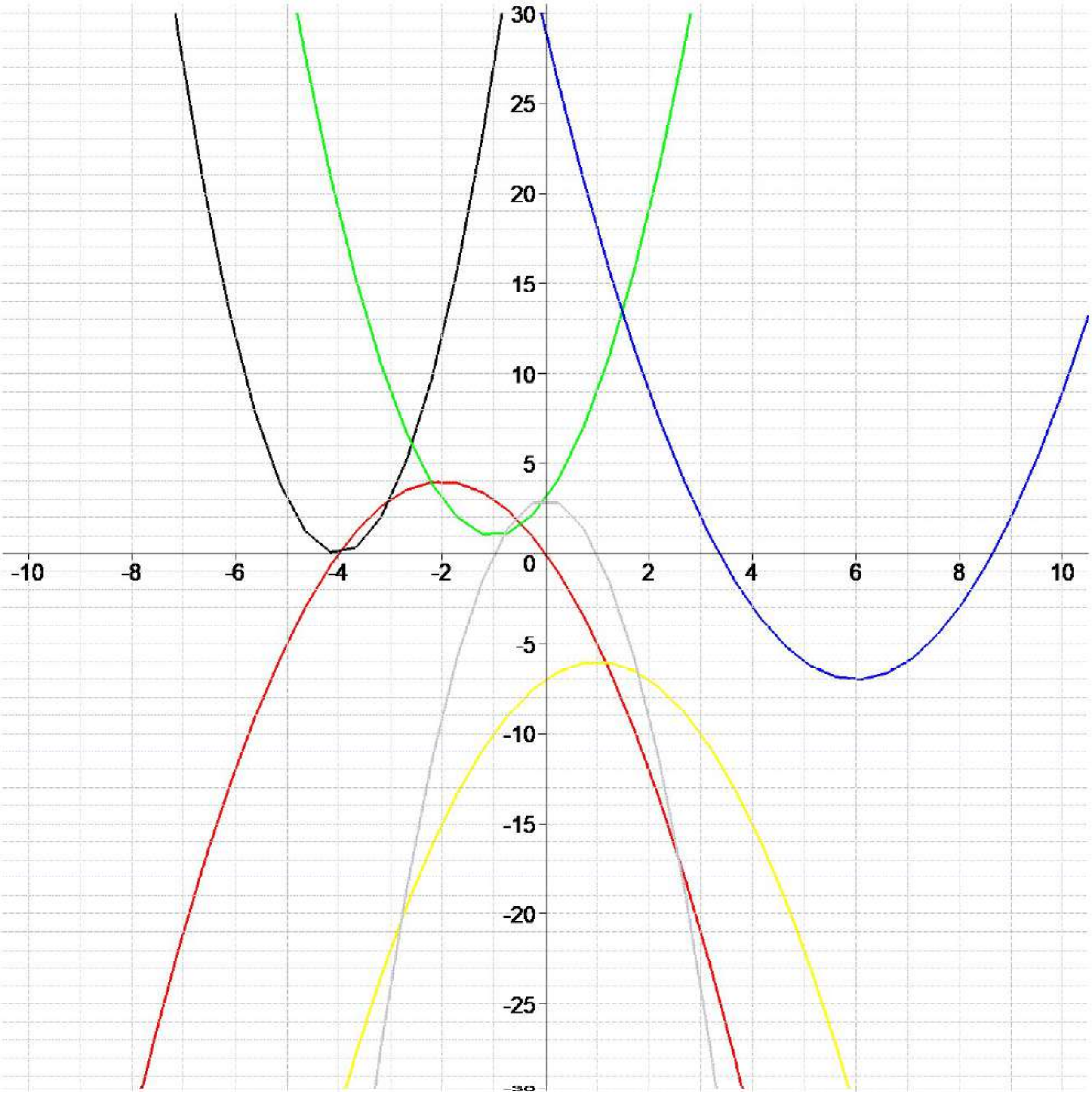
Function03 for No.11925

$$No1 = \begin{bmatrix} .1 = [y = (x-6)^2 - 7] & .3 = [y = 2\,(x+1)^2 + 1] & .5 = [y = 3\,(x+4)^2] \\ .2 = [y = -3\,x^2 + 3] & .4 = [y = -x^2 + 2\,x - 7] & .6 = [y = -x^2 - 4\,x] \end{bmatrix}$$



$$No2 = (\mathrm{f}(x) = x^2 + 14\,x + 49), \quad , No3 = (\mathrm{f}(x) = -x^2 + 6\,x + 7)$$

$$No4 = (\mathrm{f}(x) = x^2 + 8\,x + 15), \quad , No5 = (\mathrm{f}(x) = x^2 - 64)$$

$$No6 = (p = 100 - 0.4\,x)$$

```
No7 : N  = 130    ,
    : P1 = 6000   , P2 = 6200   , P3 = 6400   ,
    : B  = 200    , M  = 975800
No8 : P  = 7      , L  = 17     , A  = 36     , D  = 63
```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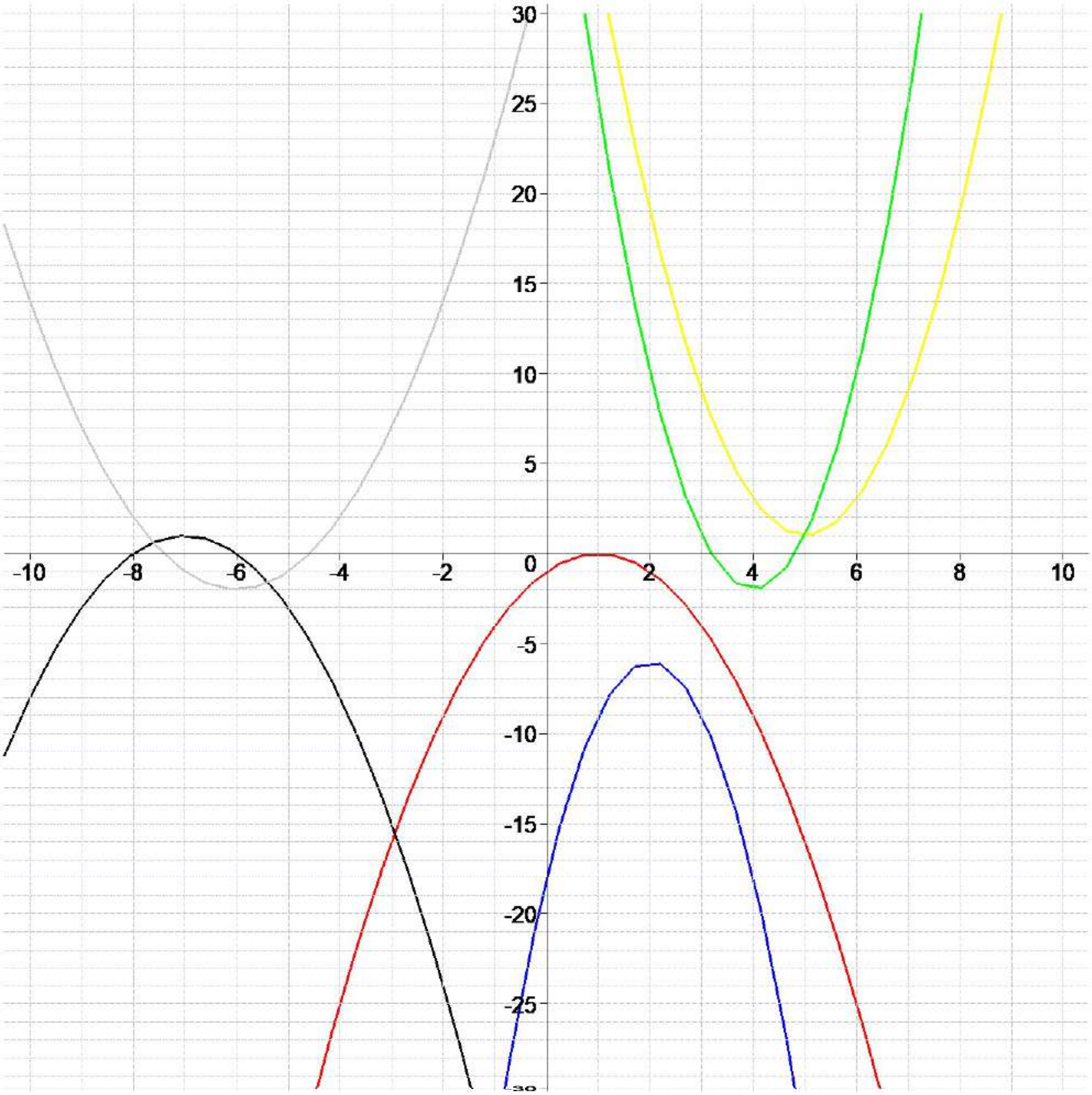
Function03 for No.11935

$$No1 = \begin{bmatrix} .1 = [y = 3x^2 - 24x + 46] & .3 = [y = -3x^2 + 12x - 18] & .5 = [y = 2x^2 - 20x + 51] \\ .2 = [y = (x+6)^2 - 2] & .4 = [y = -(x+7)^2 + 1] & .6 = [y = -(x-1)^2] \end{bmatrix}$$



$$No2 = (f(x) = x^2 - 4x - 32), \quad , No3 = (f(x) = x^2 - 2x)$$

$$No4 = (f(x) = -x^2 - 10x - 16), \quad , No5 = (f(x) = -x^2 - 18x - 81)$$

$$No6 = (p = 200 - 0.3x)$$

```
No7 : N  = 80    ,
    : P1 = 4000  , P2 = 4400  , P3 = 4800  ,
    : B  = 400   , M  = 616400
No8 : P  = 11    , L  = 16    , A  = 144   , D  = 99
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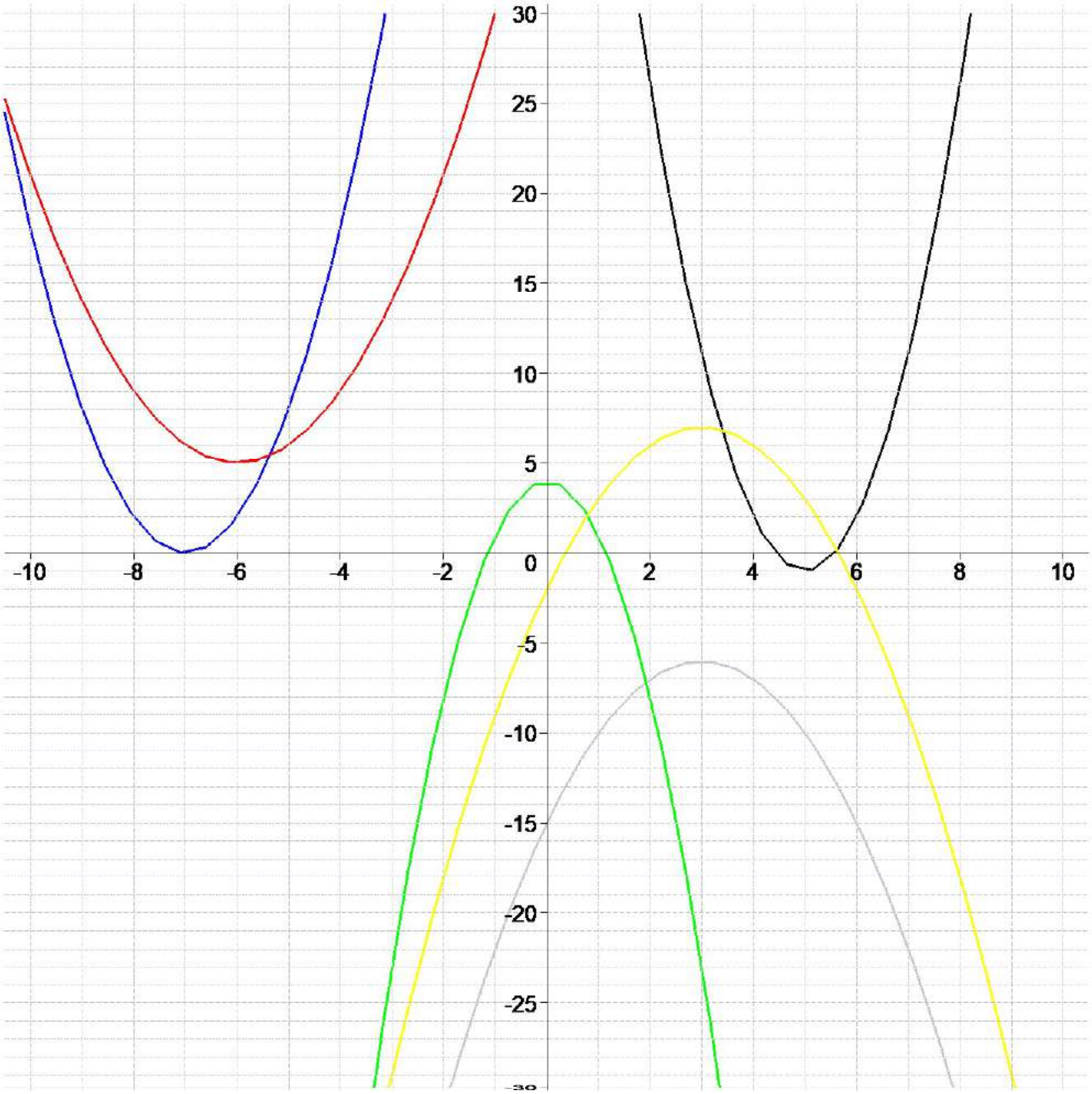
Function03 for No.12183

$$No1 = \begin{bmatrix} .1 = [y = x^2 + 12x + 41] & .3 = [y = -3x^2 + 4] & .5 = [y = 2x^2 + 28x + 98] \\ .2 = [y = -(x-3)^2 + 7] & .4 = [y = 3(x-5)^2 - 1] & .6 = [y = -(x-3)^2 - 6] \end{bmatrix}$$



$$No2 = (f(x) = x^2 + 6x - 16), \quad , No3 = (f(x) = -x^2 + 8x - 7)$$

$$No4 = (f(x) = -x^2 + 6x - 9), \quad , No5 = (f(x) = -x^2 - 12x - 27)$$

$$No6 = (p = 100 - 0.6x)$$

```
No7 : N  = 70    ,
    : P1 = 6000  , P2 = 6200  , P3 = 6400  ,
    : B  = 200   , M  = 480000
No8 : P  = 7     , L  = 10    , A  = 9     , D  = 91
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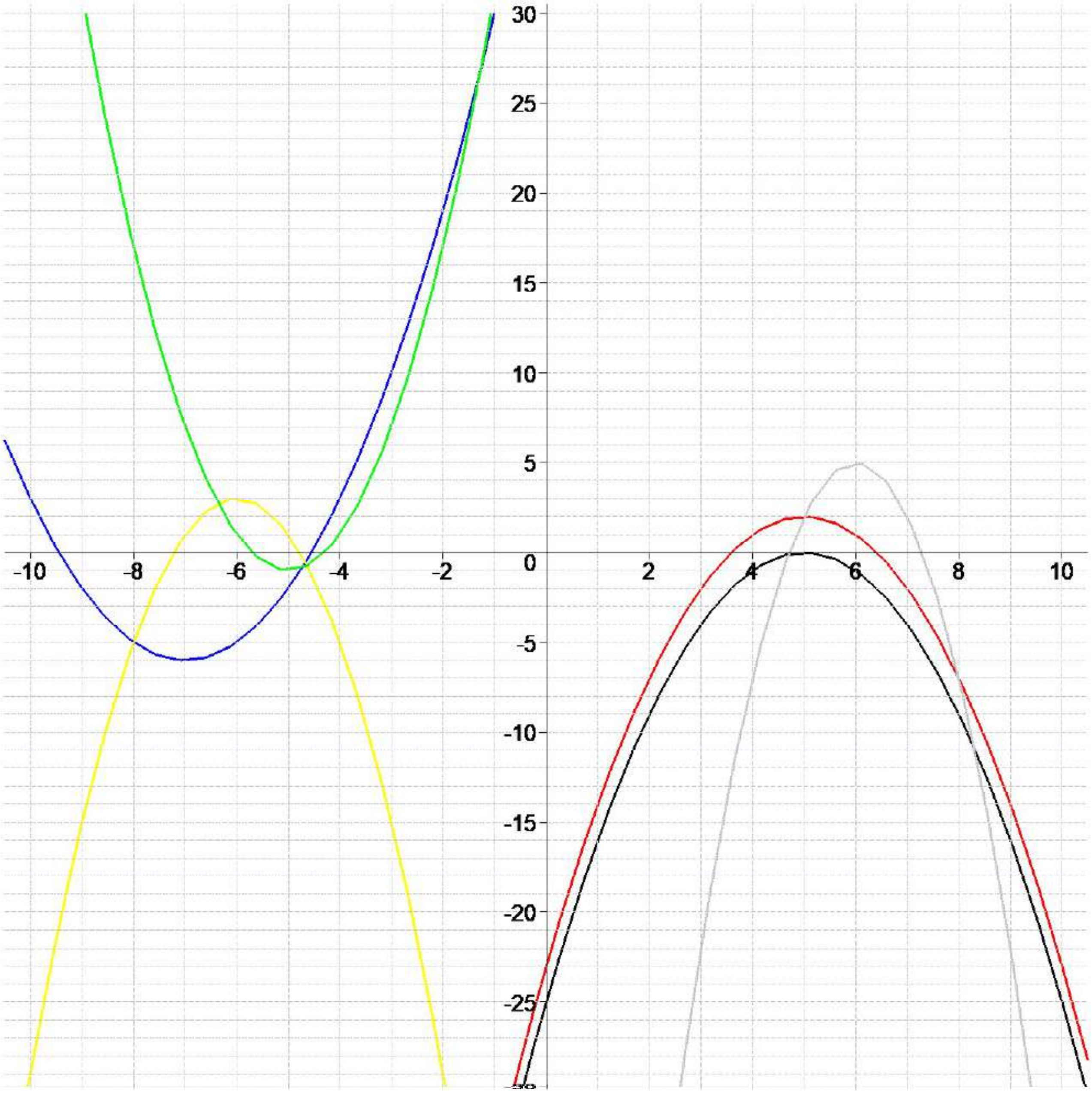
Function03 for No.12246

$$No1 = \begin{bmatrix} .1 = [y = 2\,(x+5)^2 - 1] & .3 = [y = -x^2 + 10\,x - 25] & .5 = [y = -2\,(x+6)^2 + 3] \\ .2 = [y = -3\,x^2 + 36\,x - 103] & .4 = [y = -(x-5)^2 + 2] & .6 = [y = x^2 + 14\,x + 43] \end{bmatrix}$$



$$No2 = (\mathrm{f}(x) = -x^2 - 16\,x - 63), \quad , No3 = (\mathrm{f}(x) = x^2 + 4\,x + 3)$$

$$No4 = (\mathrm{f}(x) = -x^2 + 12\,x - 35), \quad , No5 = (\mathrm{f}(x) = x^2 - 14\,x + 49)$$

$$No6 = (p = 300 - 0.1\,x)$$

```
No7 : N  = 110   ,
    : P1 = 3000  , P2 = 3500  , P3 = 4000  ,
    : B  = 500   , M  = 800000
No8 : P  = 7     , L  = 11    , A  = 64    , D  = 56
```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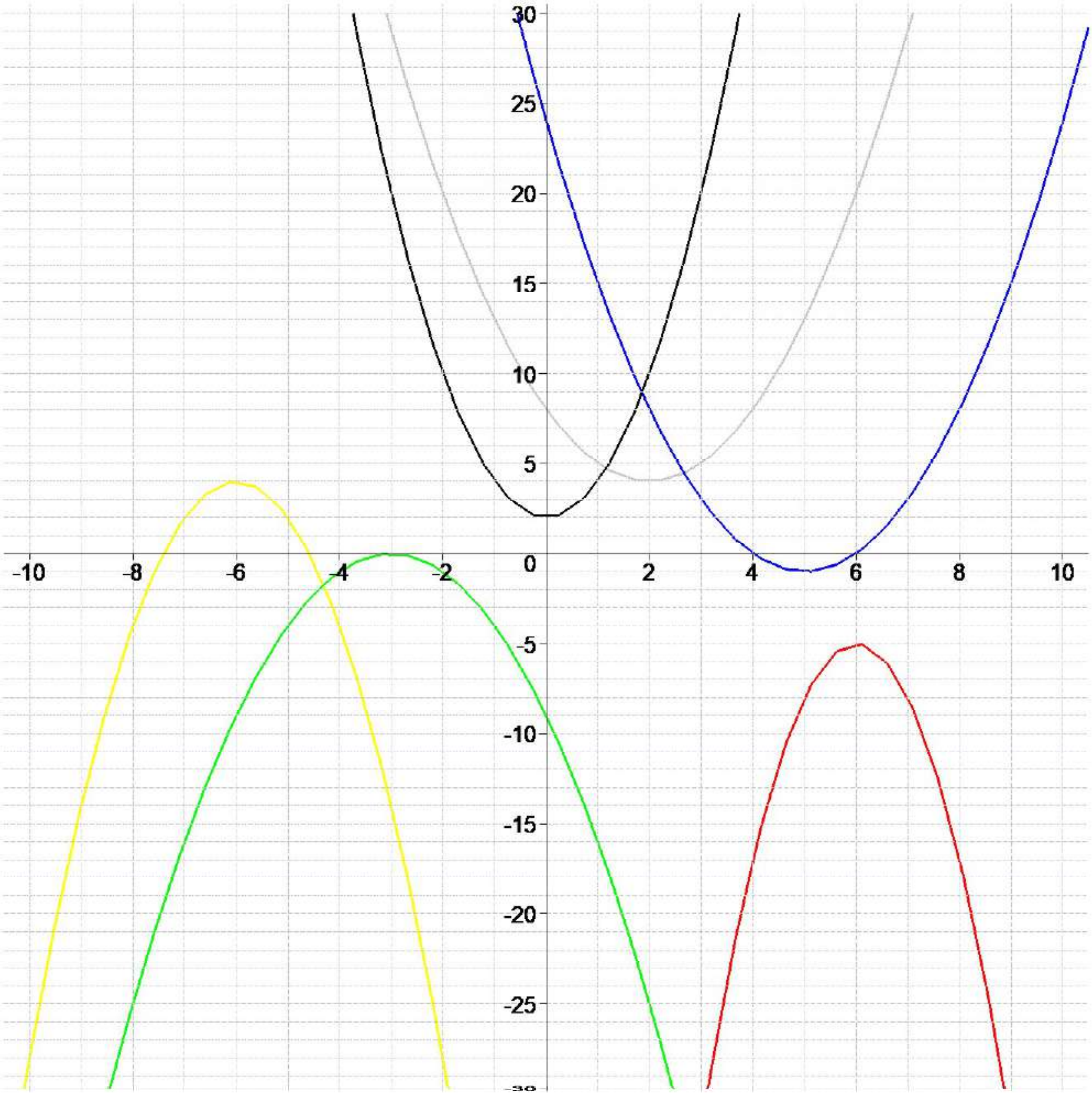
Function03 for No.12332

$$No1 = \begin{bmatrix} .1 = [y = 2x^2 + 2] & .3 = [y = -(x+3)^2] & .5 = [y = -2x^2 - 24x - 68] \\ .2 = [y = x^2 - 10x + 24] & .4 = [y = (x-2)^2 + 4] & .6 = [y = -3x^2 + 36x - 113] \end{bmatrix}$$



$$No2 = (\mathrm{f}(x) = -x^2 - 12x - 36), \quad , No3 = (\mathrm{f}(x) = -x^2 + 8x)$$

$$No4 = (\mathrm{f}(x) = x^2 - 81), \quad , No5 = (\mathrm{f}(x) = x^2 - 2x - 3)$$

$$No6 = (p = 200 - 0.6x)$$

```
No7 : N  = 110    ,
    : P1 = 4000   , P2 = 4400   , P3 = 4800   ,
    : B  = 400    , M  = 1080000
No8 : P  = 4      , L  = 12     , A  = 25     , D  = 52
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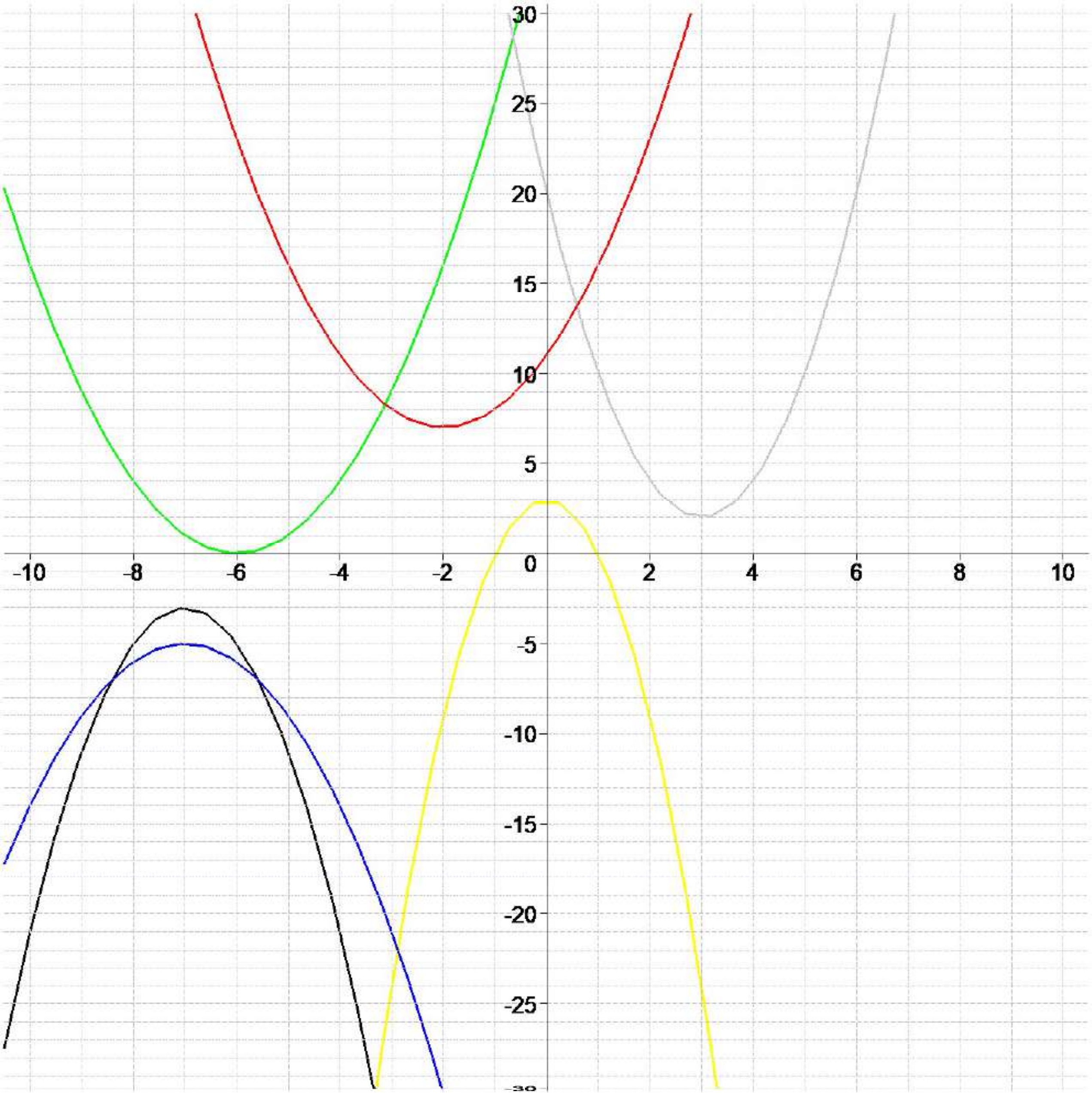
Function03 for No.12682

$$No1 = \begin{bmatrix} .1 = [y = x^2 + 4x + 11] & .3 = [y = (x+6)^2] & .5 = [y = -2x^2 - 28x - 101] \\ .2 = [y = 2x^2 - 12x + 20] & .4 = [y = -(x+7)^2 - 5] & .6 = [y = -3x^2 + 3] \end{bmatrix}$$



$$No2 = (f(x) = x^2 - 12x + 36), \quad , No3 = (f(x) = -x^2 + 8x)$$

$$No4 = (f(x) = x^2 - 6x - 7), \quad , No5 = (f(x) = -x^2 + 81)$$

$$No6 = (p = 100 - 0.3x)$$

```
No7 : N  = 130     ,
    : P1 = 3000    , P2 = 3500   , P3 = 4000   ,
    : B  = 500     , M  = 1430000
No8 : P  = 11      , L  = 21     , A  = 49     , D  = 77
```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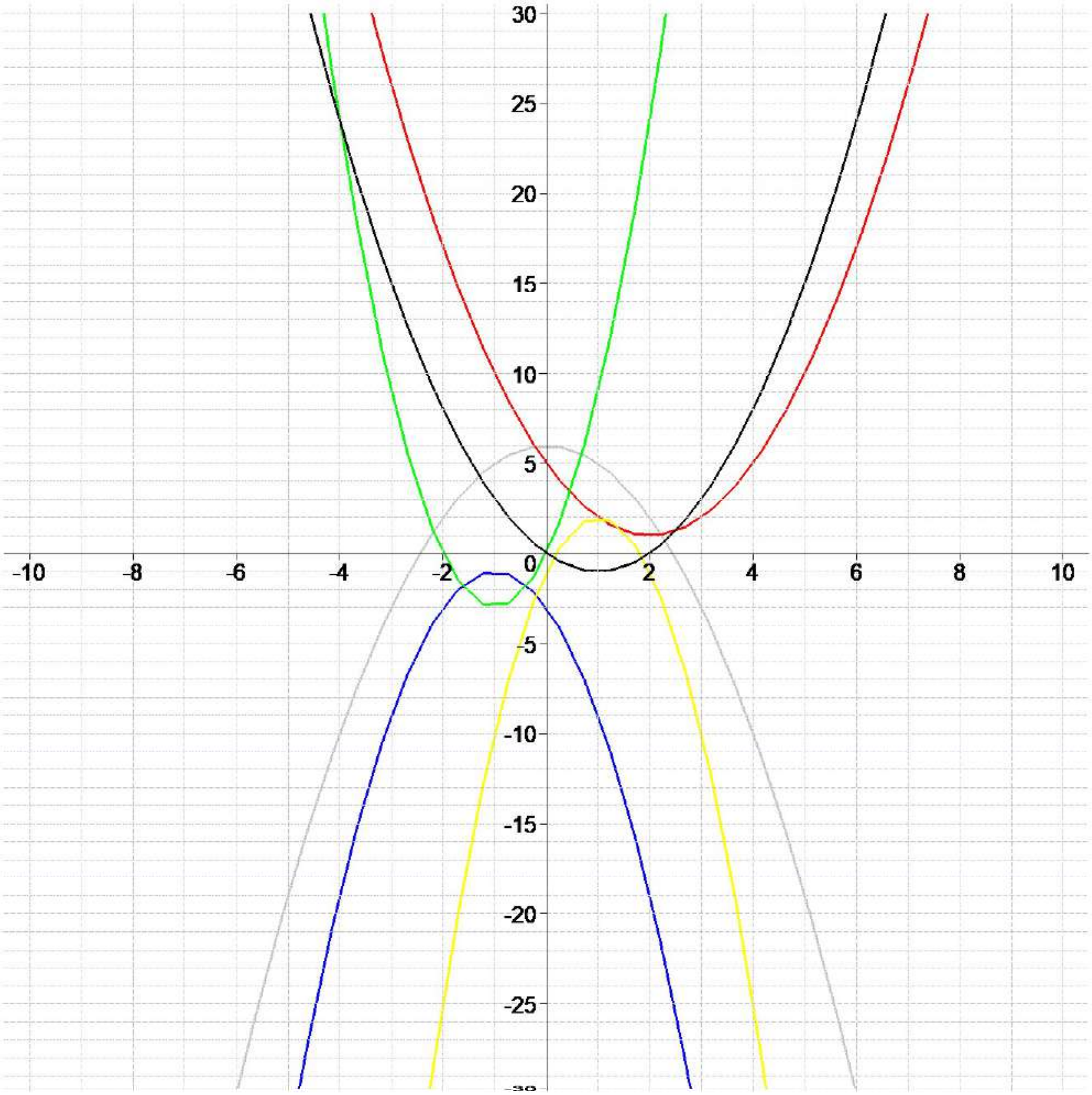
Function03 for No.13022

$$No1 = \begin{bmatrix} .1 = [y = (x-1)^2 - 1] & .3 = [y = 3x^2 + 6x] & .5 = [y = -2(x+1)^2 - 1] \\ .2 = [y = -3x^2 + 6x - 1] & .4 = [y = x^2 - 4x + 5] & .6 = [y = -x^2 + 6] \end{bmatrix}$$



$$No2 = (f(x) = x^2 - 4x - 21), \quad , No3 = (f(x) = -x^2 + 4x + 32)$$

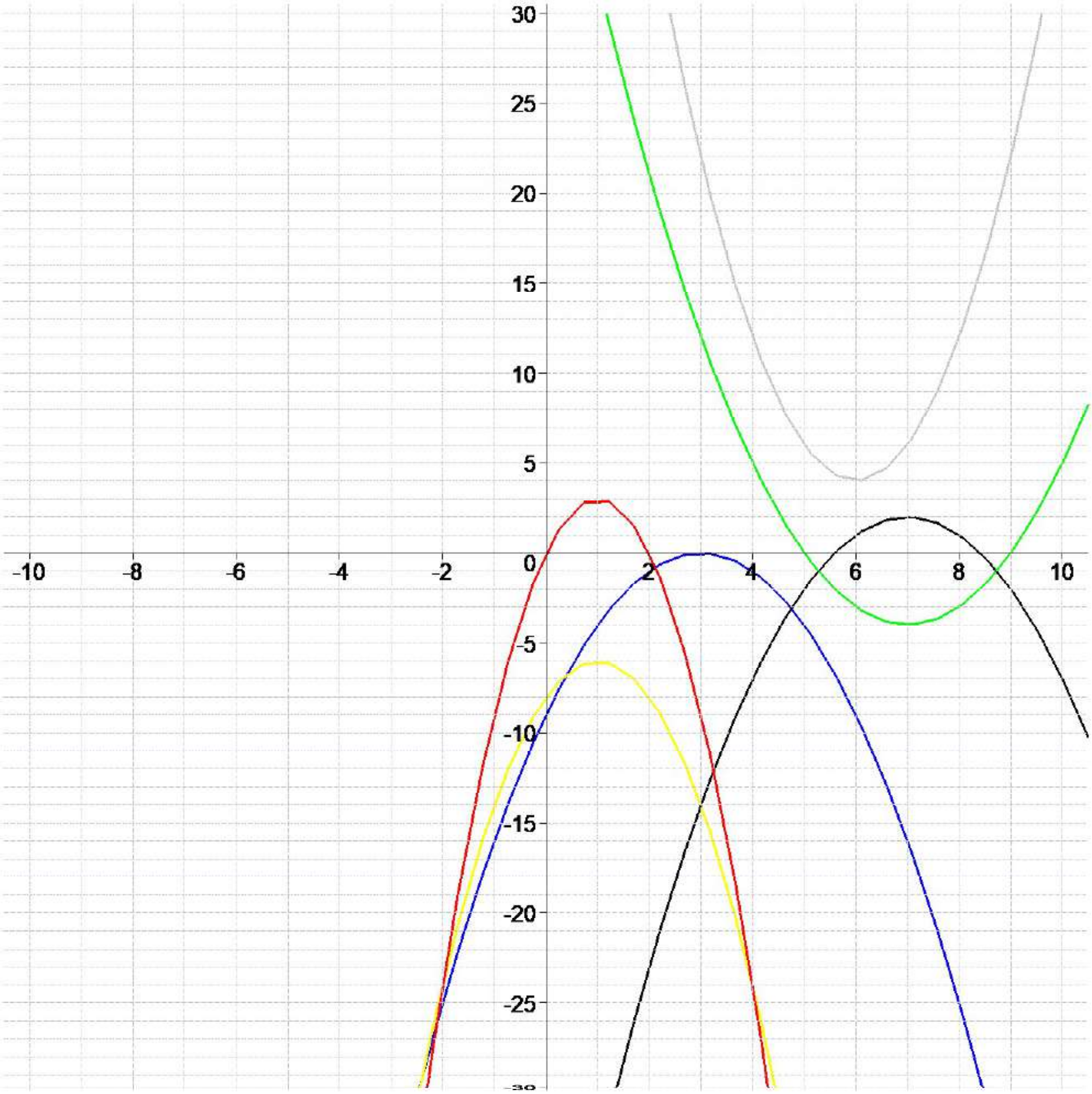
$$No4 = (f(x) = -x^2 + 2x + 15), \quad , No5 = (f(x) = -x^2 - 8x - 16)$$

$$No6 = (p = 200 - 0.2x)$$

```
No7 : N  = 100   ,
    : P1 = 4000  , P2 = 4400  , P3 = 4800  ,
    : B  = 400   , M  = 939600
No8 : P  = 3     , L  = 4     , A  = 49    , D  = 9
```

Function03 for No.13650

$$No1 = \begin{bmatrix} .1 = [y = 2\,(x-6)^2 + 4] & .3 = [y = -x^2 + 14\,x - 47] & .5 = [y = (x-7)^2 - 4] \\ .2 = [y = -3\,x^2 + 6\,x] & .4 = [y = -2\,x^2 + 4\,x - 8] & .6 = [y = -(x-3)^2] \end{bmatrix}$$



$$No2 = (\,f(x) = -x^2 - 12\,x - 36\,), \quad , No3 = (\,f(x) = x^2 - 6\,x\,)$$

$$No4 = (\,f(x) = -x^2 + 4\,x + 21\,), \quad , No5 = (\,f(x) = -x^2 + 4\,)$$

$$No6 = (\,p = 400 - 0.4\,x\,)$$

```
   No7 : N  = 70    ,
       : P1 = 5000  , P2 = 5500  , P3 = 6000  ,
       : B  = 500   , M  = 728000
   No8 : P  = 6     , L  = 9     , A  = 64    , D  = 36
```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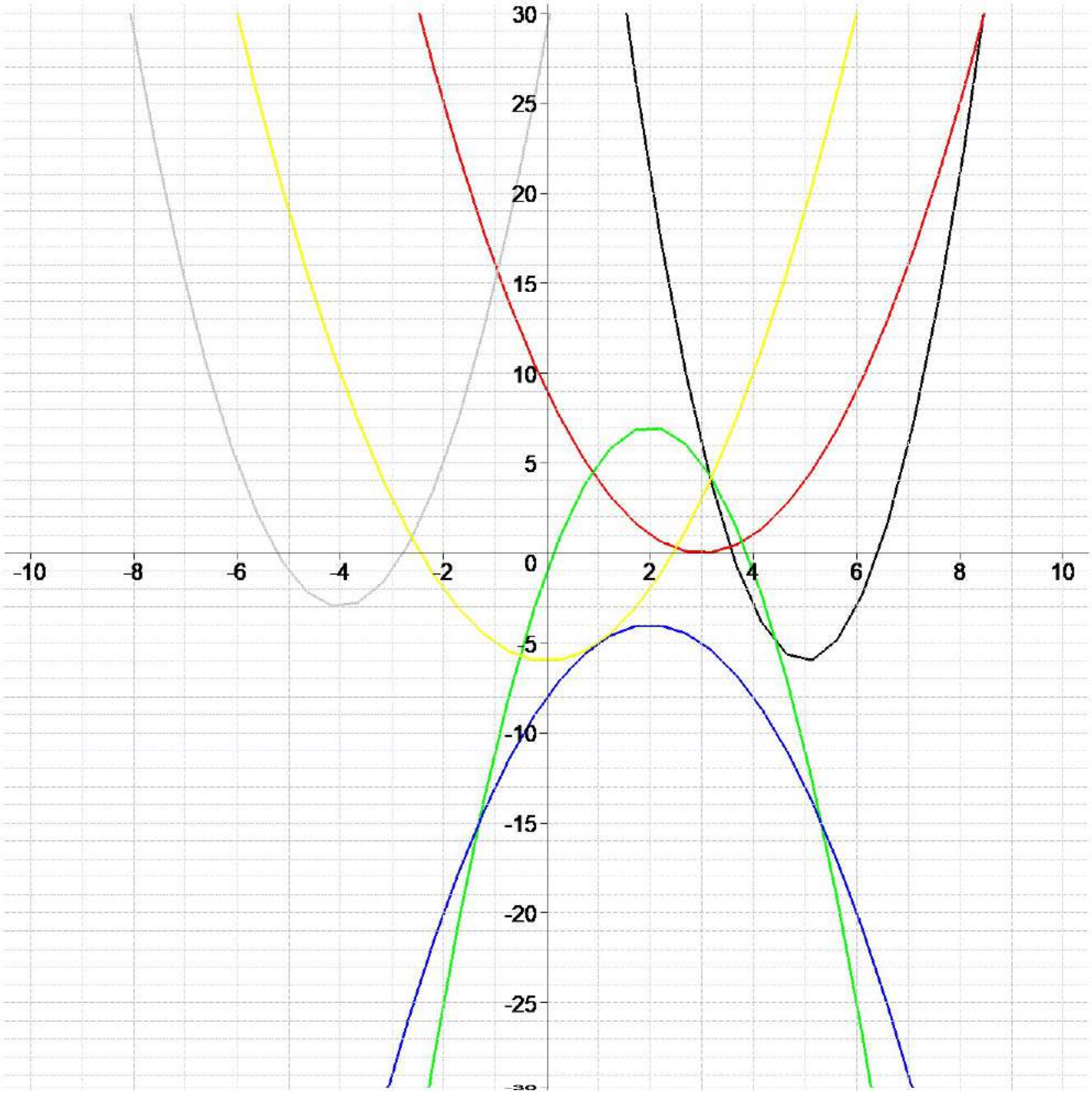
Function03 for No.13655

$$No1 = \begin{bmatrix} .1 = [y = x^2 - 6] & .3 = [y = -2(x-2)^2 + 7] & .5 = [y = (x-3)^2] \\ .2 = [y = -x^2 + 4x - 8] & .4 = [y = 2x^2 + 16x + 29] & .6 = [y = 3x^2 - 30x + 69] \end{bmatrix}$$



$$No2 = (f(x) = -x^2 + 6x + 7), \quad , No3 = (f(x) = x^2 - 6x)$$

$$No4 = (f(x) = x^2 + 4x + 4), \quad , No5 = (f(x) = -x^2 - 10x - 24)$$

$$No6 = (p = 300 - 0.2x)$$

```
No7 : N  = 110   ,
    : P1 = 4000  , P2 = 4200  , P3 = 4400  ,
    : B  = 200   , M  = 676800
No8 : P  = 3     , L  = 11    , A  = 121   , D  = 30
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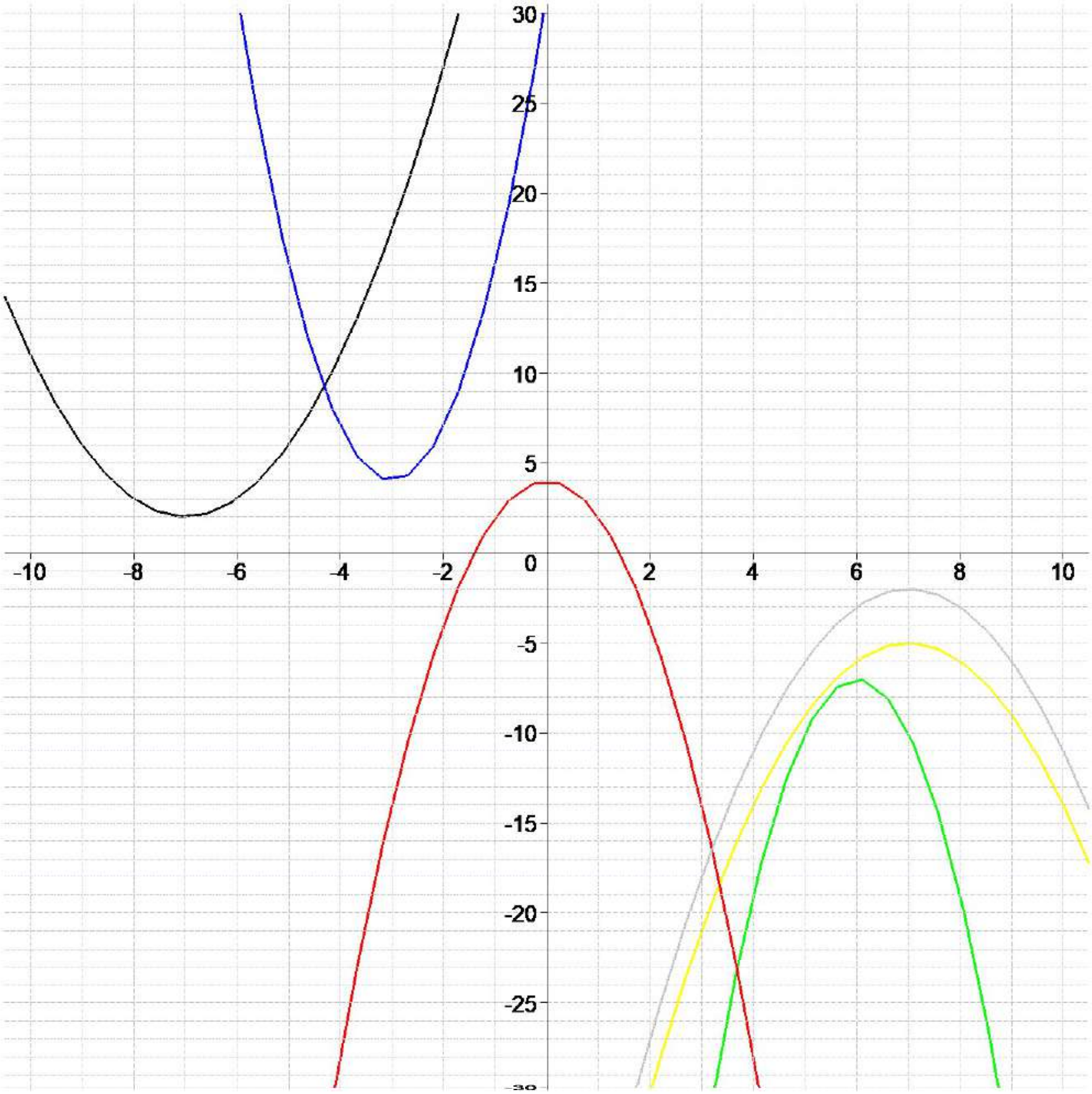
Function03 for No.13667

$$No1 = \begin{bmatrix} .1 = [y = -x^2 + 14x - 51] & .3 = [y = 3(x+3)^2 + 4] & .5 = [y = -3(x-6)^2 - 7] \\ .2 = [y = -2x^2 + 4] & .4 = [y = -x^2 + 14x - 54] & .6 = [y = (x+7)^2 + 2] \end{bmatrix}$$



$$No2 = (f(x) = -x^2 + 2x + 24), \quad , No3 = (f(x) = x^2 - 6x - 16)$$

$$No4 = (f(x) = -x^2 - 2x + 15), \quad , No5 = (f(x) = x^2 - 2x + 1)$$

$$No6 = (p = 200 - 0.5x)$$

```
No7 : N  = 110    ,
    : P1 = 3000   , P2 = 3300   , P3 = 3600   ,
    : B  = 300    , M  = 844800
No8 : P  = 4      , L  = 5      , A  = 81     , D  = 20
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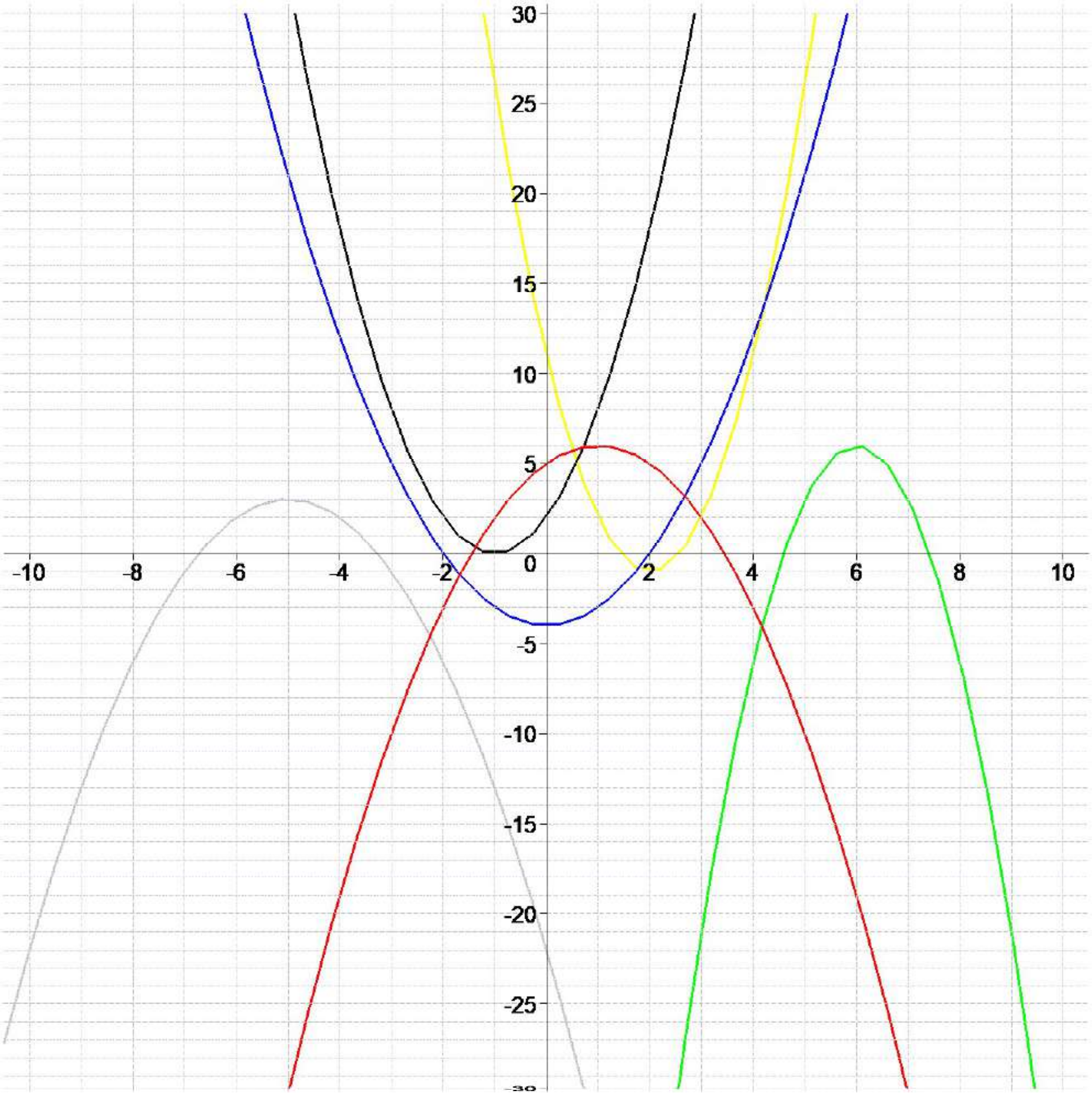
Function03 for No.13734

$$No1 = \begin{bmatrix} .1 = [y = -(x-1)^2+6] & .3 = [y = 2x^2+4x+2] & .5 = [y = -(x+5)^2+3] \\ .2 = [y = x^2-4] & .4 = [y = 3(x-2)^2-1] & .6 = [y = -3x^2+36x-102] \end{bmatrix}$$



$$No2 = (f(x) = -x^2 - 6x - 9), \quad , No3 = (f(x) = -x^2 - 4x)$$

$$No4 = (f(x) = -x^2 + 49), \quad , No5 = (f(x) = x^2 + 2x - 3)$$

$$No6 = (p = 500 - 0.3x)$$

```
No7 : N  = 80    ,
    : P1 = 6000  , P2 = 6300  , P3 = 6600  ,
    : B  = 300   , M  = 725700
No8 : P  = 6     , L  = 11    , A  = 25    , D  = 18
```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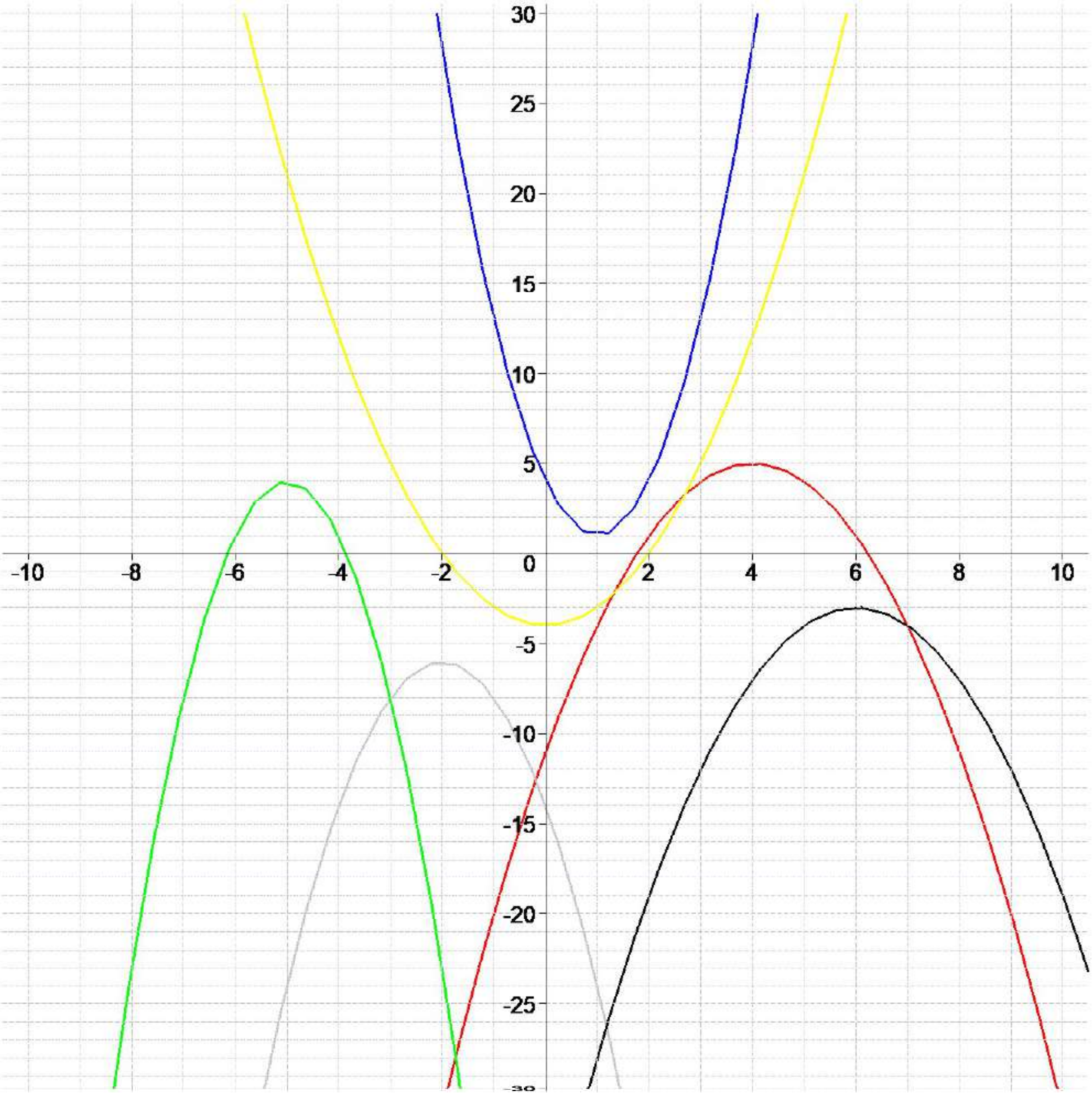
Function03 for No.13962

$$No1 = \begin{bmatrix} .1 = [y = -(x-6)^2 - 3] & .3 = [y = -2x^2 - 8x - 14] & .5 = [y = -x^2 + 8x - 11] \\ .2 = [y = -3(x+5)^2 + 4] & .4 = [y = x^2 - 4] & .6 = [y = 3x^2 - 6x + 4] \end{bmatrix}$$



$$No2 = (f(x) = -x^2 + 4x), \quad , No3 = (f(x) = x^2 - 4x - 32)$$

$$No4 = (f(x) = -x^2 - 4x + 5), \quad , No5 = (f(x) = -x^2 + 16x - 64)$$

$$No6 = (p = 300 - 0.5x)$$

```
No7 : N  = 120   ,
    : P1 = 4000  , P2 = 4500  , P3 = 5000  ,
    : B  = 500   , M  = 1166000
No8 : P  = 1     , L  = 7     , A  = 169   , D  = 5
```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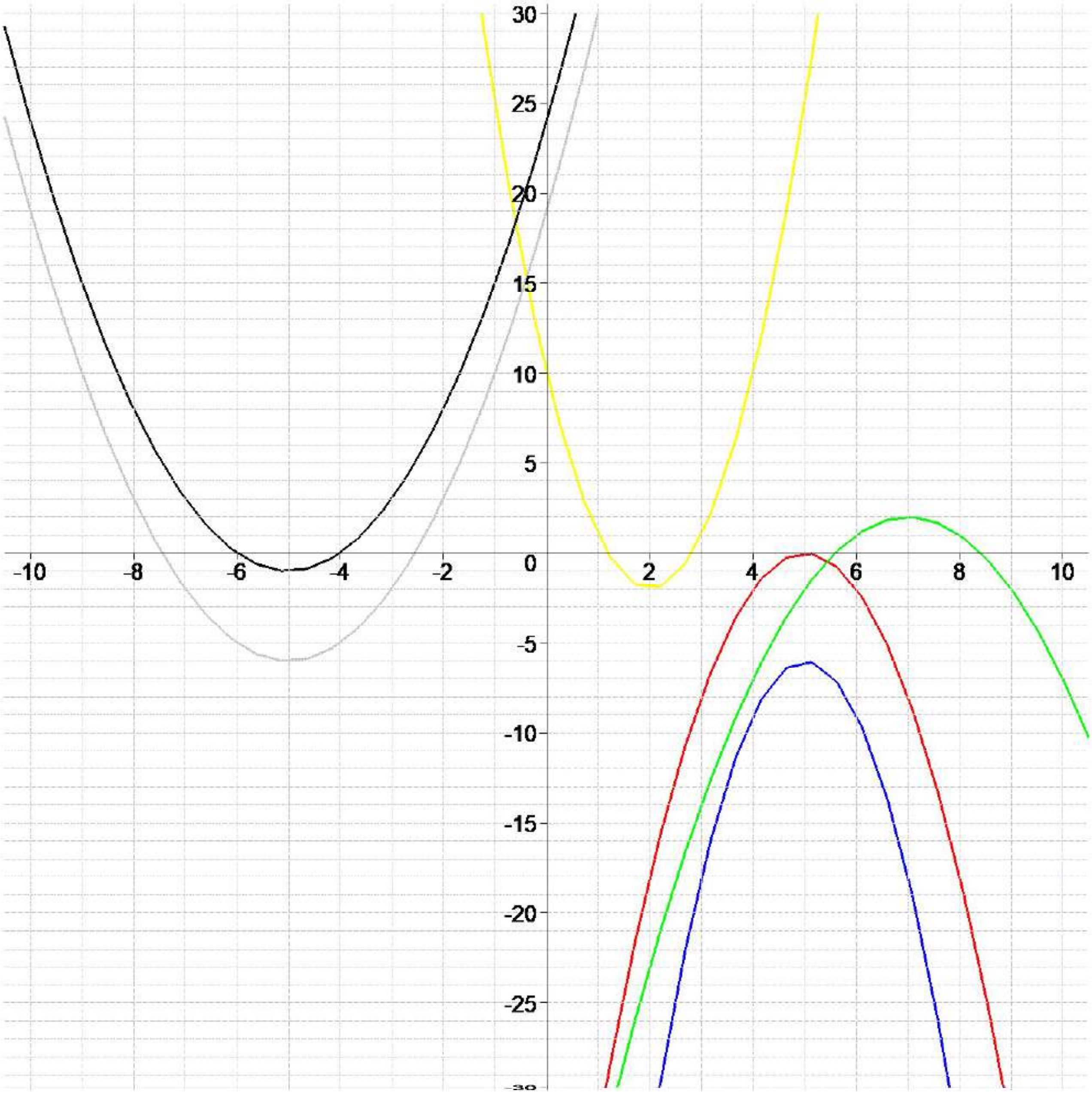
Function03 for No.14470

$$No1 = \begin{bmatrix} .1 = [y = x^2 + 10\,x + 19] & .3 = [y = (x+5)^2 - 1] & .5 = [y = 3\,(x-2)^2 - 2] \\ .2 = [y = -(x-7)^2 + 2] & .4 = [y = -2\,x^2 + 20\,x - 50] & .6 = [y = -3\,x^2 + 30\,x - 81] \end{bmatrix}$$



$$No2 = (\mathrm{f}(x) = x^2 + 2\,x - 15), \quad , No3 = (\mathrm{f}(x) = -x^2 + 2\,x + 24)$$

$$No4 = (\mathrm{f}(x) = x^2 + 2\,x + 1), \quad , No5 = (\mathrm{f}(x) = -x^2 - 10\,x - 21)$$

$$No6 = (p = 200 - 0.7\,x)$$

```
No7 : N  = 70    ,
    : P1 = 6000  , P2 = 6600  , P3 = 7200  ,
    : B  = 600   , M  = 806400
No8 : P  = 5     , L  = 10    , A  = 81    , D  = 30
```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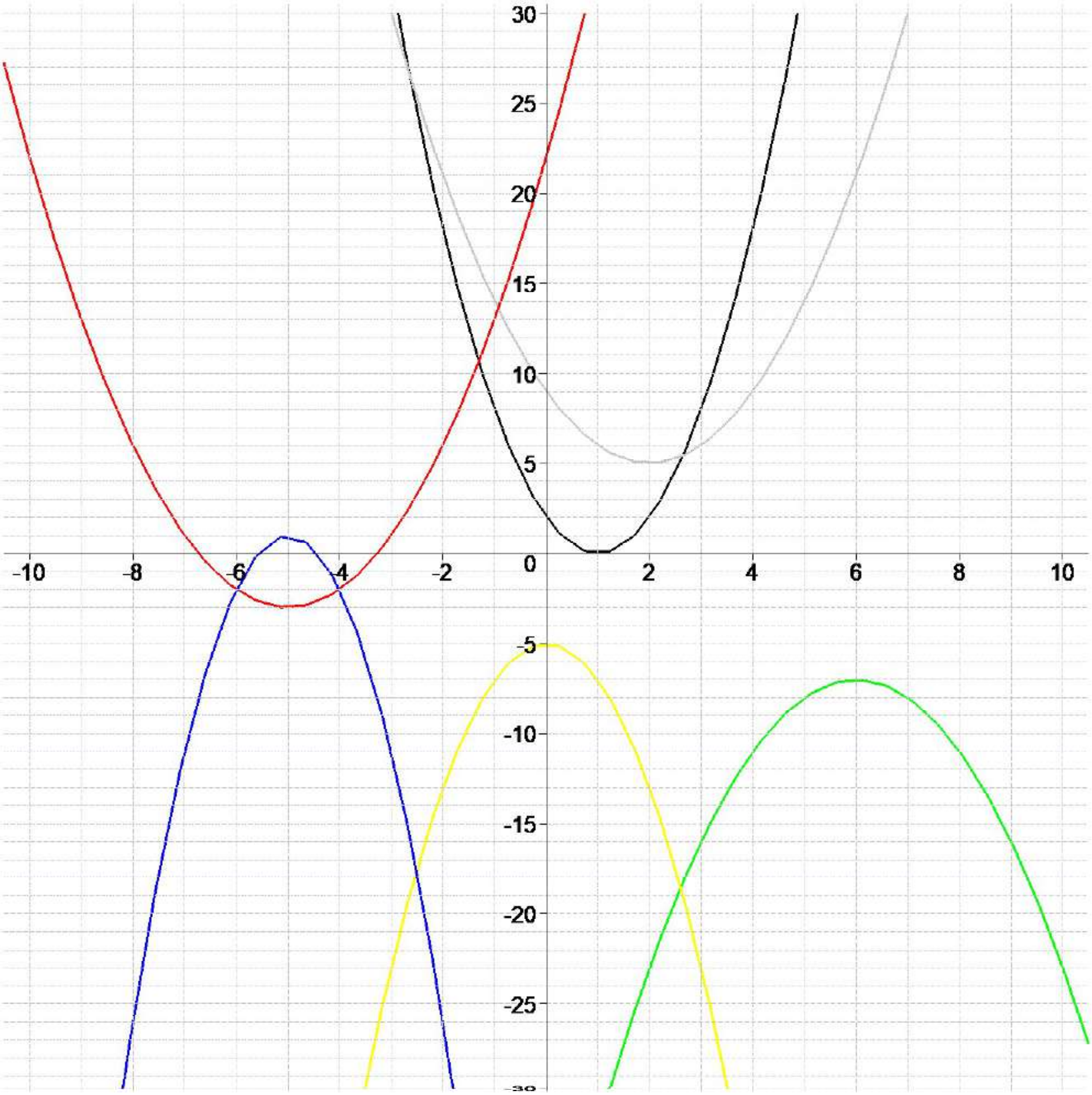
Function03 for No.14561

$$No1 = \begin{bmatrix} .1 = [y = -3\,x^2 - 30\,x - 74] & .3 = [y = x^2 - 4\,x + 9] & .5 = [y = -2\,x^2 - 5] \\ .2 = [y = (x+5)^2 - 3] & .4 = [y = 2\,(x-1)^2] & .6 = [y = -(x-6)^2 - 7] \end{bmatrix}$$



$$No2 = (\mathrm{f}(x) = x^2 - 4\,x - 21), \quad , No3 = (\mathrm{f}(x) = -x^2 - 4\,x - 4)$$

$$No4 = (\mathrm{f}(x) = -x^2 + 12\,x - 32), \quad , No5 = (\mathrm{f}(x) = x^2 + 2\,x - 48)$$

$$No6 = (p = 400 - 0.4\,x)$$

```
No7 : N  = 120   ,
    : P1 = 4000  , P2 = 4200  , P3 = 4400  ,
    : B  = 200   , M  = 735000
No8 : P  = 4     , L  = 5     , A  = 49    , D  = 16
```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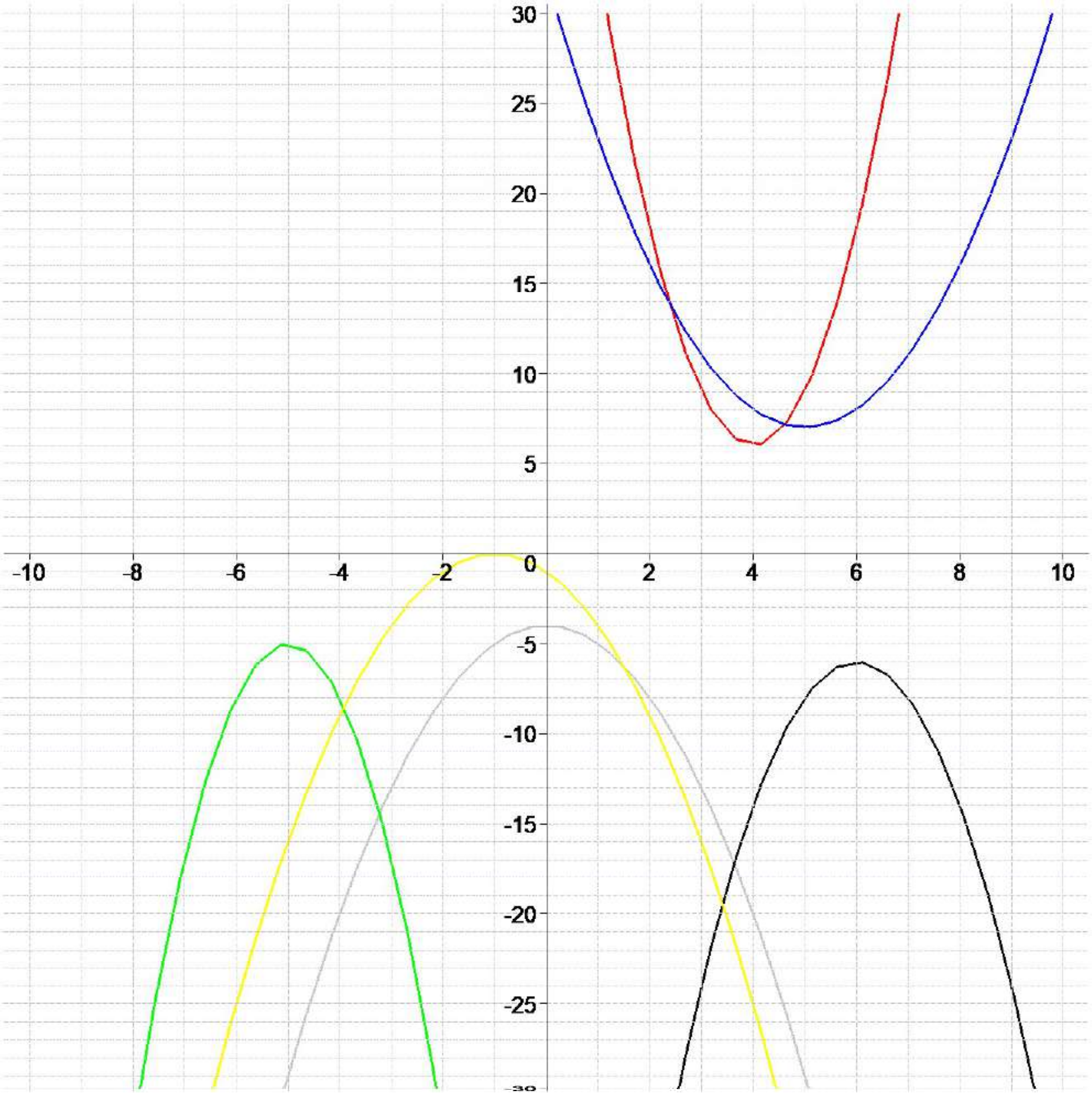
Function03 for No.14657

$$No1 = \begin{bmatrix} .1 = [y = (x-5)^2 + 7] & .3 = [y = -3x^2 - 30x - 80] & .5 = [y = -x^2 - 4] \\ .2 = [y = -(x+1)^2] & .4 = [y = -2x^2 + 24x - 78] & .6 = [y = 3x^2 - 24x + 54] \end{bmatrix}$$



$$No2 = (f(x) = x^2 + 10x + 21), \quad , No3 = (f(x) = -x^2 + 36)$$

$$No4 = (f(x) = x^2 - 10x + 21), \quad , No5 = (f(x) = x^2 + 4x + 4)$$

$$No6 = (p = 400 - 0.4x)$$

```
   No7 : N  = 110    ,
       : P1 = 6000   , P2 = 6300   , P3 = 6600   ,
       : B  = 300    , M  = 960300
   No8 : P  = 5      , L  = 6      , A  = 121    , D  = 35
```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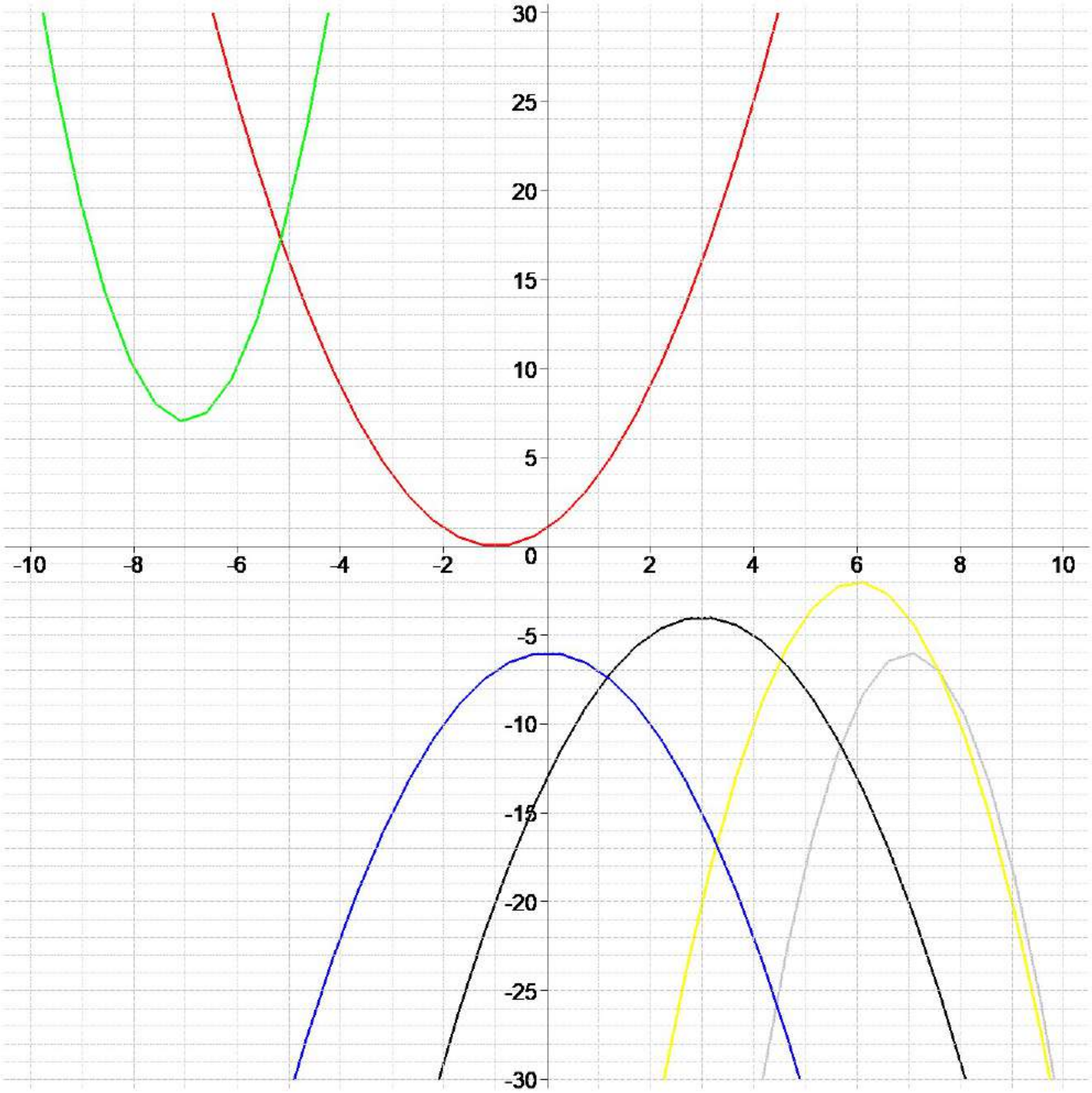
Function03 for No.14661

$$No1 = \begin{bmatrix} .1 = [y = -x^2 - 6] & .3 = [y = -(x-3)^2 - 4] & .5 = [y = -2x^2 + 24x - 74] \\ .2 = [y = 3(x+7)^2 + 7] & .4 = [y = x^2 + 2x + 1] & .6 = [y = -3x^2 + 42x - 153] \end{bmatrix}$$



$$No2 = (f(x) = -x^2 - 10x - 21), \quad , No3 = (f(x) = -x^2 + 10x - 25)$$

$$No4 = (f(x) = -x^2 + 12x - 27), \quad , No5 = (f(x) = x^2 - 6x)$$

$$No6 = (p = 600 - 0.1x)$$

```
No7 : N  = 80    ,
    : P1 = 6000  , P2 = 6500  , P3 = 7000  ,
    : B  = 500   , M  = 770000
No8 : P  = 3     , L  = 12    , A  = 25    , D  = 18
```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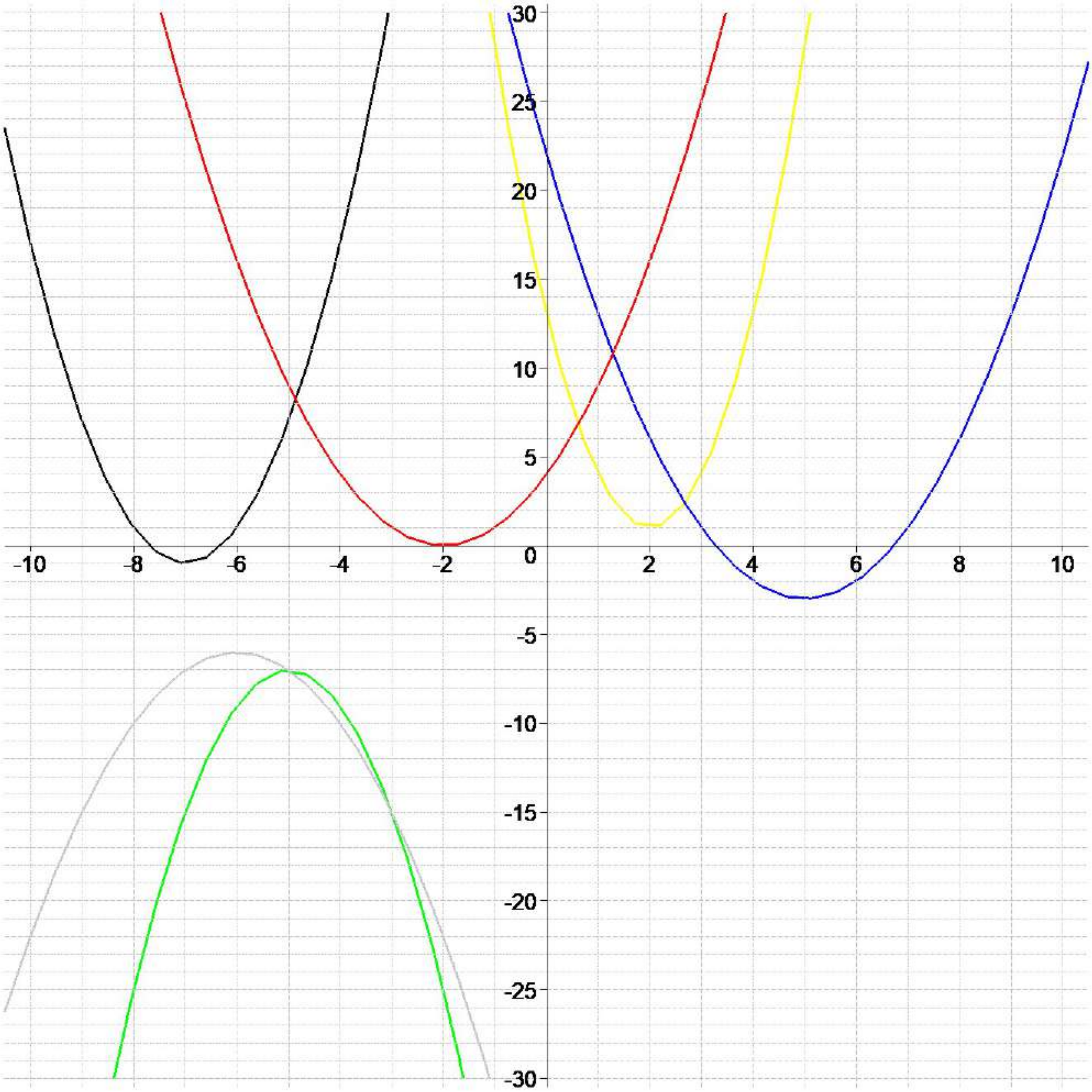
Function03 for No.14674

$$No1 = \begin{bmatrix} .1 = [y = x^2 + 4x + 4] & .3 = [y = x^2 - 10x + 22] & .5 = [y = 2(x+7)^2 - 1] \\ .2 = [y = -(x+6)^2 - 6] & .4 = [y = -2x^2 - 20x - 57] & .6 = [y = 3(x-2)^2 + 1] \end{bmatrix}$$



$$No2 = (f(x) = x^2 + 10x + 21), \quad , No3 = (f(x) = x^2 + 2x + 1)$$

$$No4 = (f(x) = -x^2 + 2x + 35), \quad , No5 = (f(x) = -x^2 + 12x - 27)$$

$$No6 = (p = 200 - 0.4x)$$

```
   No7 : N  = 100    ,
       : P1 = 5000   , P2 = 5500   , P3 = 6000   ,
       : B  = 500    , M  = 934500
   No8 : P  = 9      , L  = 14     , A  = 169    , D  = 27
```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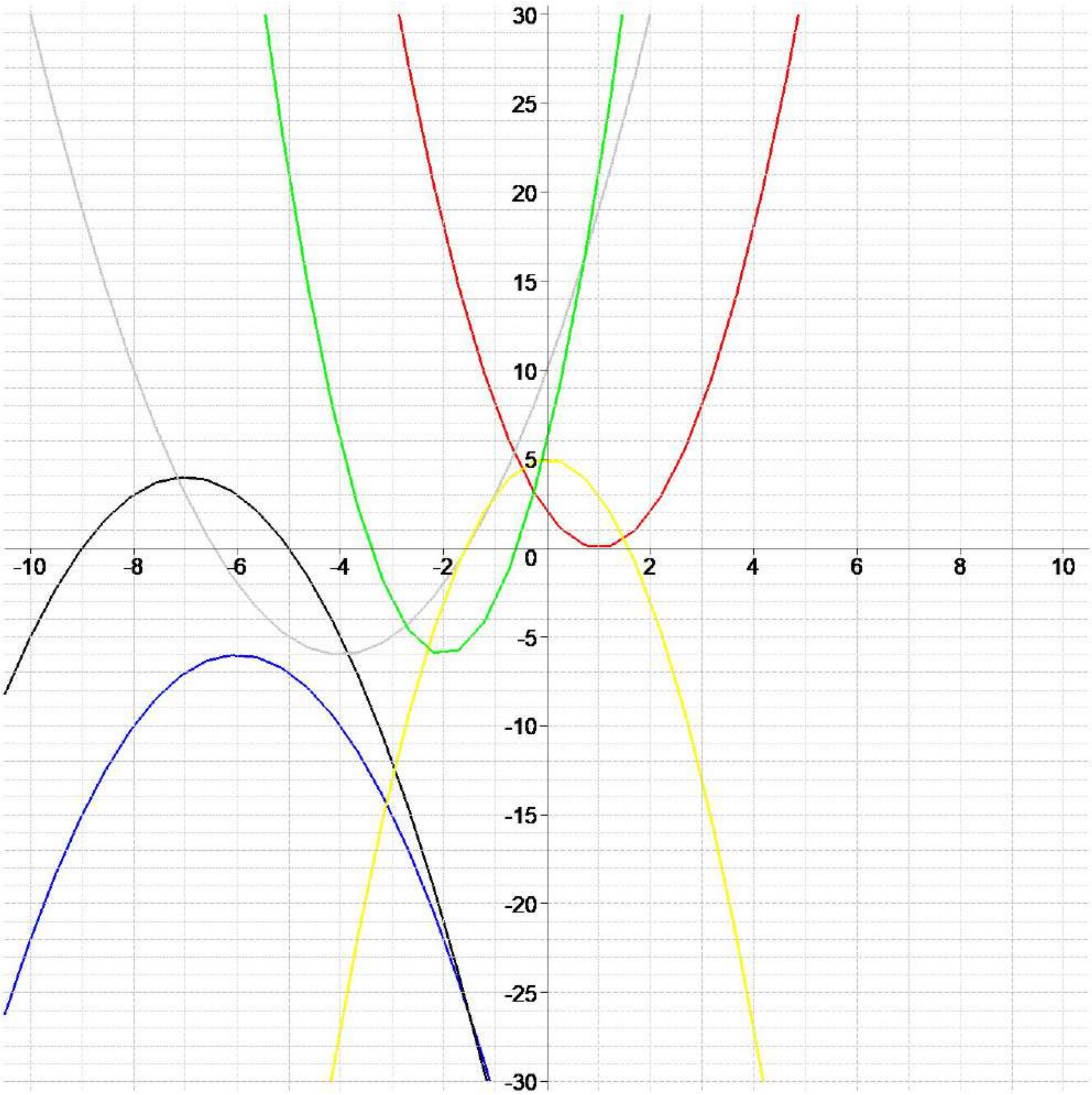
Function03 for No.14676

$$No1 = \begin{bmatrix} .1 = [y = 3(x+2)^2 - 6] & .3 = [y = x^2 + 8x + 10] & .5 = [y = 2(x-1)^2] \\ .2 = [y = -2x^2 + 5] & .4 = [y = -x^2 - 14x - 45] & .6 = [y = -x^2 - 12x - 42] \end{bmatrix}$$



$$No2 = (f(x) = -x^2 - 10x - 21), \quad , No3 = (f(x) = x^2 - 4x - 32)$$

$$No4 = (f(x) = x^2 - 8x + 15), \quad , No5 = (f(x) = x^2 - 18x + 81)$$

$$No6 = (p = 200 - 0.7x)$$

```
No7 : N  = 110    ,
    : P1 = 6000   , P2 = 6600   , P3 = 7200   ,
    : B  = 600    , M  = 1466400
No8 : P  = 9      , L  = 20     , A  = 100    , D  = 81
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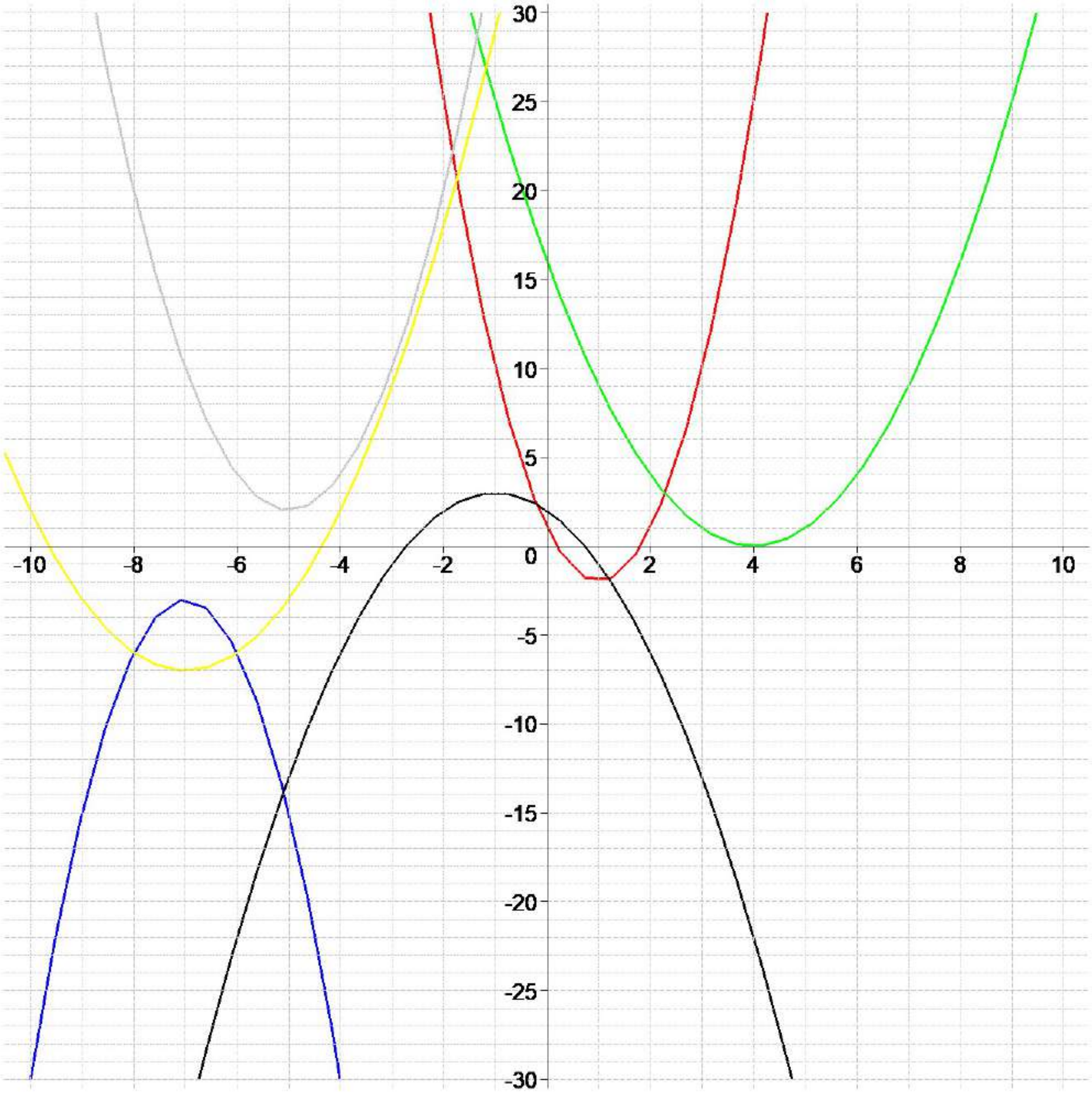
Function03 for No.14694

$$No1 = \begin{bmatrix} .1 = [y = x^2 + 14\,x + 42] & .3 = [y = 2\,x^2 + 20\,x + 52] & .5 = [y = x^2 - 8\,x + 16] \\ .2 = [y = -(x+1)^2 + 3] & .4 = [y = -3\,(x+7)^2 - 3] & .6 = [y = 3\,(x-1)^2 - 2] \end{bmatrix}$$



$$No2 = (\mathrm{f}(x) = -x^2 + 9), \quad , No3 = (\mathrm{f}(x) = -x^2 + 16\,x - 64)$$

$$No4 = (\mathrm{f}(x) = x^2 + 2\,x - 24), \quad , No5 = (\mathrm{f}(x) = x^2 + 4\,x - 12)$$

$$No6 = (p = 700 - 0.3\,x)$$

```
No7 : N  = 80     ,
    : P1 = 6000   , P2 = 6500   , P3 = 7000   ,
    : B  = 500    , M  = 858000
No8 : P  = 2      , L  = 6      , A  = 16     , D  = 10
```

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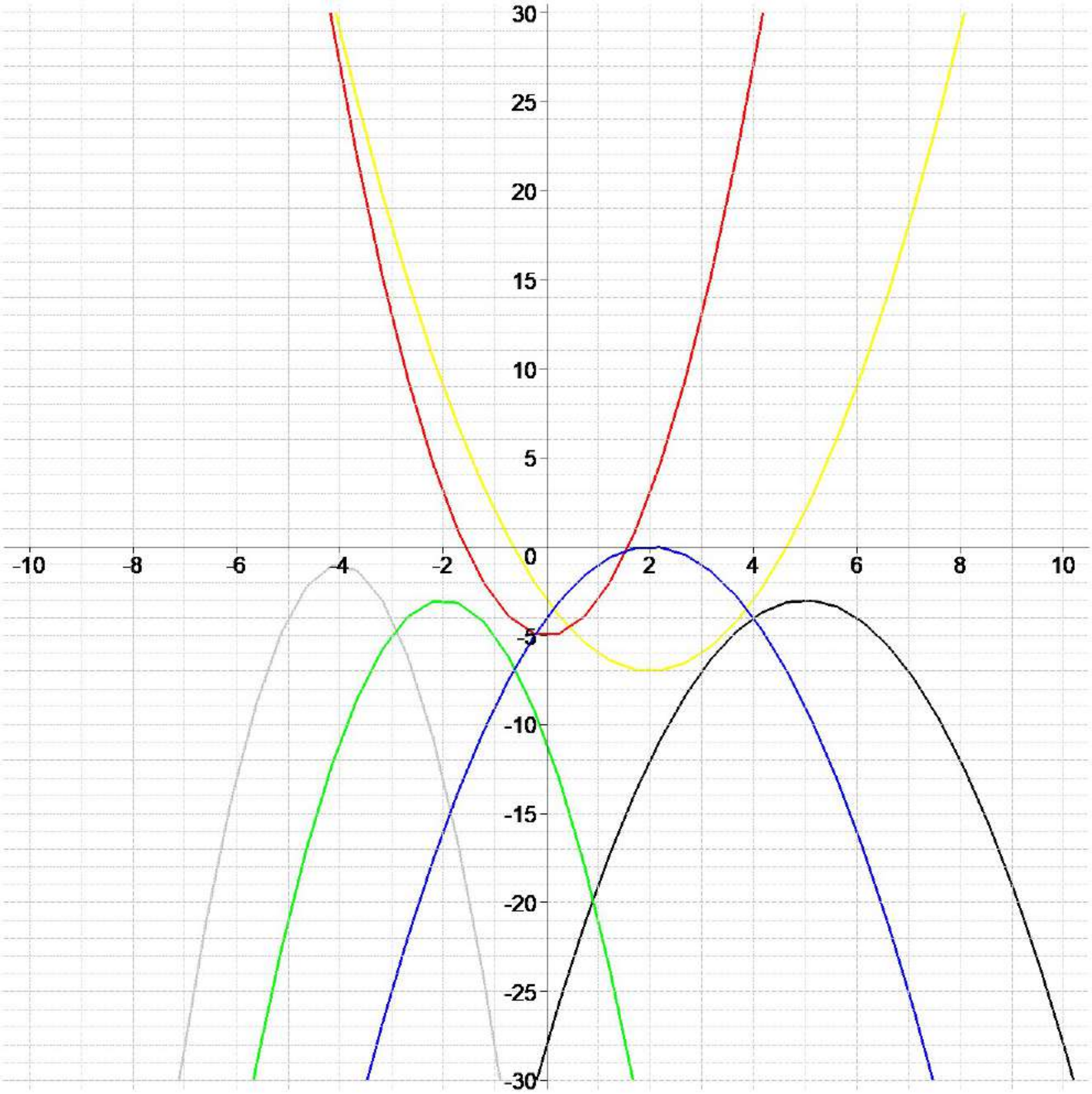
Function03 for No.14705

$$No1 = \begin{bmatrix} .1 = [y = -x^2 + 4x - 4] & .3 = [y = -(x-5)^2 - 3] & .5 = [y = x^2 - 4x - 3] \\ .2 = [y = -2x^2 - 8x - 11] & .4 = [y = 2x^2 - 5] & .6 = [y = -3(x+4)^2 - 1] \end{bmatrix}$$



$$No2 = (f(x) = -x^2 + 2x + 8), \quad , No3 = (f(x) = -x^2 - 14x - 45)$$

$$No4 = (f(x) = x^2 + 6x - 7), \quad , No5 = (f(x) = x^2 - 14x + 49)$$

$$No6 = (p = 700 - 0.6x)$$

```
No7 : N  = 80    ,
    : P1 = 6000  , P2 = 6500  , P3 = 7000  ,
    : B  = 500   , M  = 837500
No8 : P  = 2     , L  = 7     , A  = 81    , D  = 18
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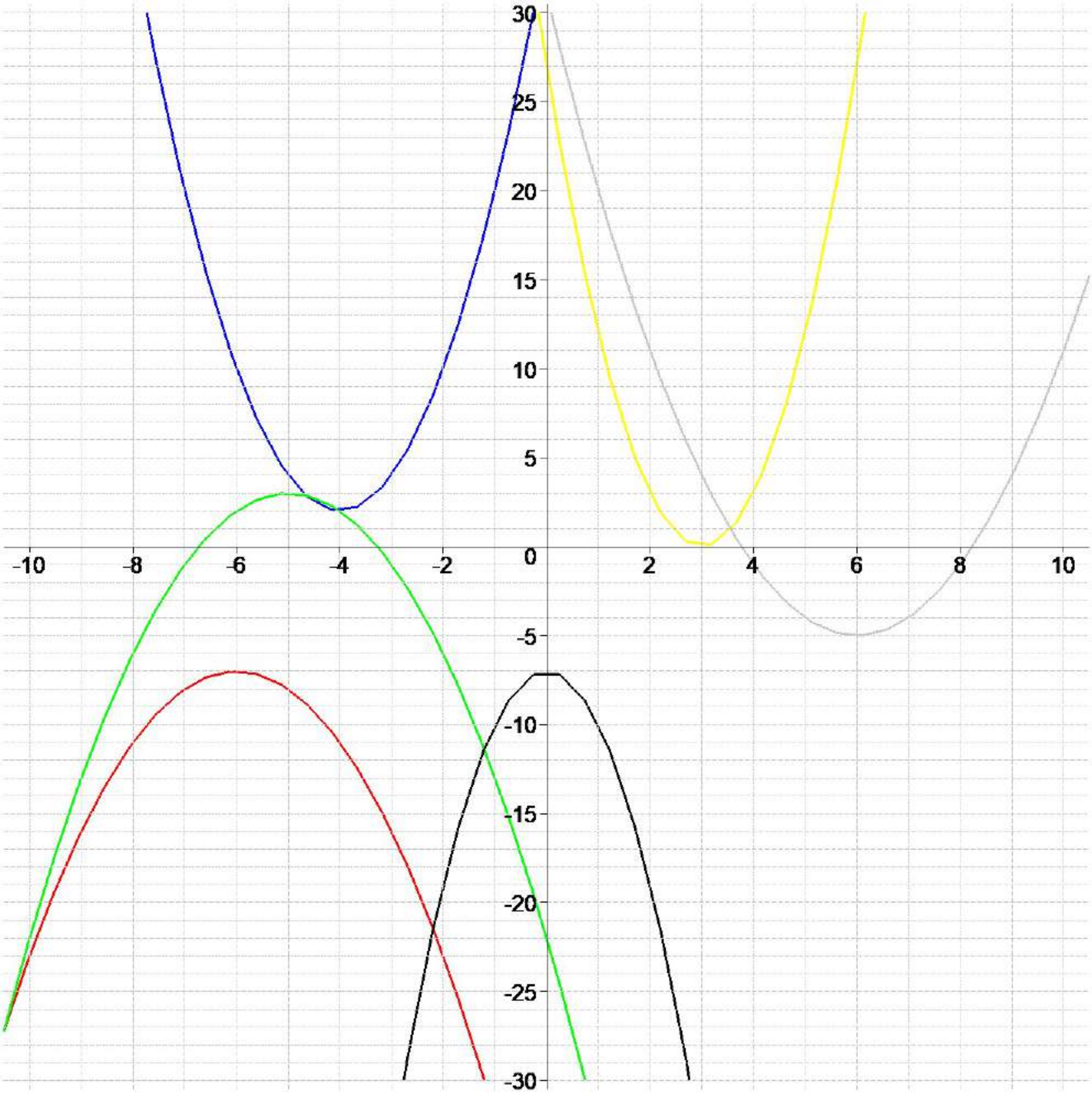
Function03 for No.14715

$$No1 = \begin{bmatrix} .1 = [y = -3x^2 - 7] & .3 = [y = 2x^2 + 16x + 34] & .5 = [y = (x-6)^2 - 5] \\ .2 = [y = -(x+5)^2 + 3] & .4 = [y = -x^2 - 12x - 43] & .6 = [y = 3x^2 - 18x + 27] \end{bmatrix}$$



$$No2 = (f(x) = -x^2 - 8x - 16), \quad , No3 = (f(x) = -x^2 - 4x + 32)$$

$$No4 = (f(x) = x^2 + 4x - 21), \quad , No5 = (f(x) = x^2 - 16x + 63)$$

$$No6 = (p = 700 - 0.6x)$$

No7 : N = 90 ,
: P1 = 3000 , P2 = 3300 , P3 = 3600 ,
: B = 300 , M = 630000
No8 : P = 7 , L = 9 , A = 169 , D = 35

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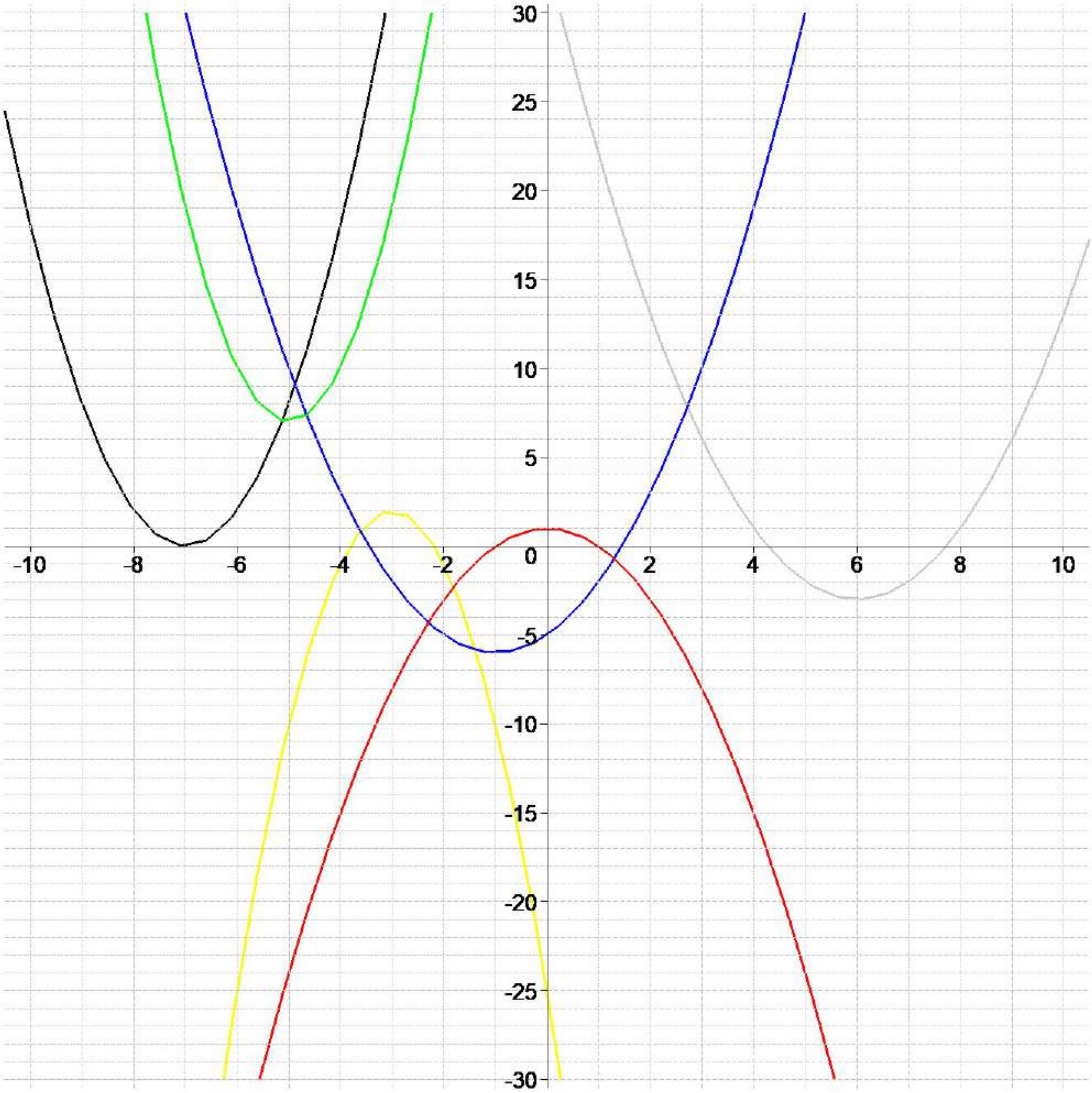
Function03 for No.14716

$$No1 = \begin{bmatrix} .1 = [y = 3\,(x+5)^2 + 7] & .3 = [y = (x+1)^2 - 6] & .5 = [y = -3\,x^2 - 18\,x - 25] \\ .2 = [y = -x^2 + 1] & .4 = [y = 2\,x^2 + 28\,x + 98] & .6 = [y = x^2 - 12\,x + 33] \end{bmatrix}$$



$$No2 = (\,\mathrm{f}(x) = x^2 + 10\,x + 21\,), \quad , No3 = (\,\mathrm{f}(x) = -x^2 - 4\,x\,)$$

$$No4 = (\,\mathrm{f}(x) = x^2 + 16\,x + 64\,), \quad , No5 = (\,\mathrm{f}(x) = -x^2 - 6\,x + 27\,)$$

$$No6 = (p = 200 - 0.5\,x)$$

```
No7 : N  = 80     ,
    : P1 = 7000   , P2 = 7500   , P3 = 8000   ,
    : B  = 500    , M  = 1020000
No8 : P  = 2      , L  = 5      , A  = 64     , D  = 20
```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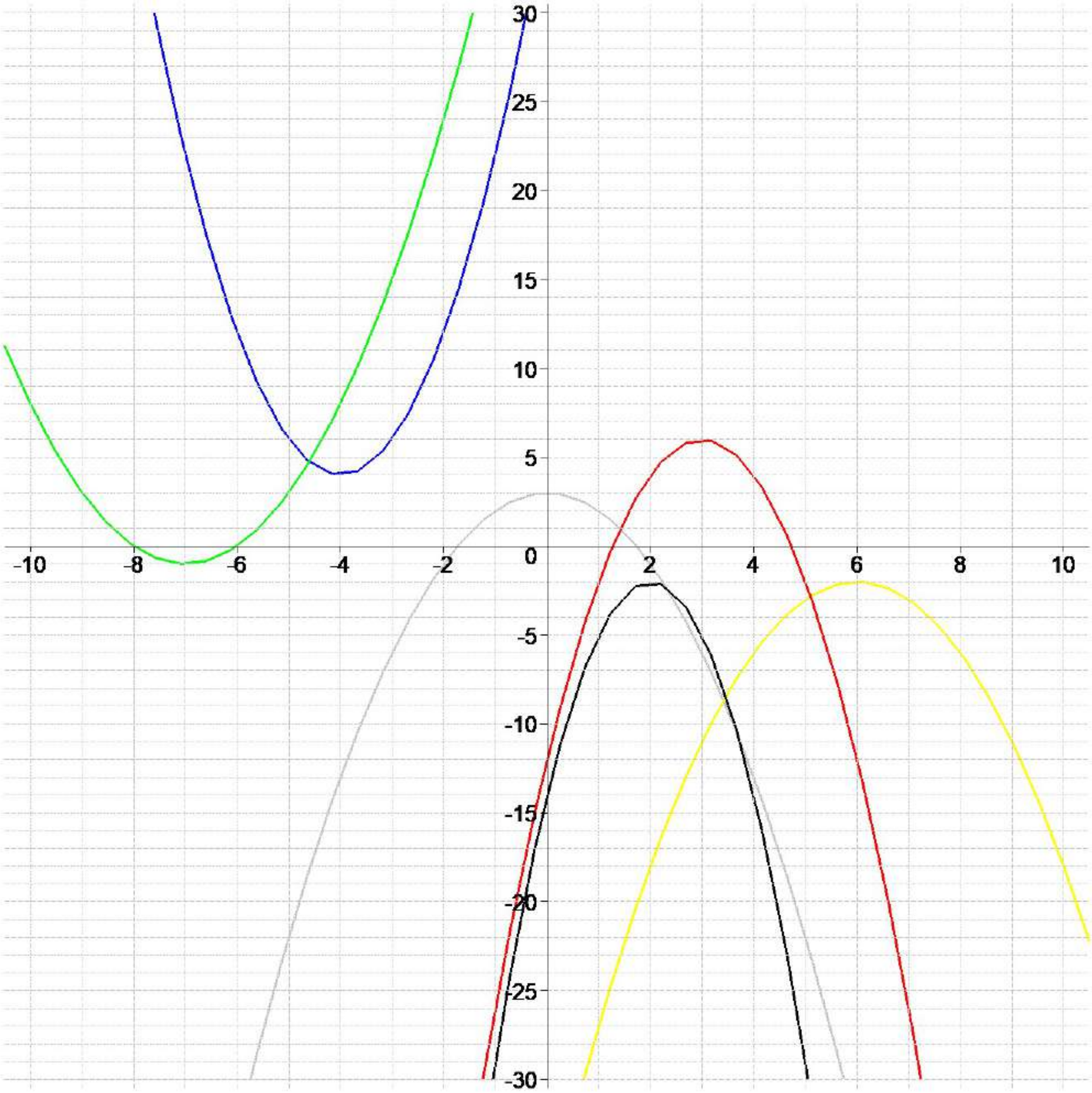
Function03 for No.14752

$$No1 = \begin{bmatrix} .1 = [y = (x+7)^2 - 1] & .3 = [y = -2x^2 + 12x - 12] & .5 = [y = -(x-6)^2 - 2] \\ .2 = [y = 2x^2 + 16x + 36] & .4 = [y = -3x^2 + 12x - 14] & .6 = [y = -x^2 + 3] \end{bmatrix}$$



$$No2 = (f(x) = x^2 - 2x - 15), \quad , No3 = (f(x) = -x^2 - 6x)$$

$$No4 = (f(x) = -x^2 + 16x - 64), \quad , No5 = (f(x) = x^2 - 8x + 12)$$

$$No6 = (p = 400 - 0.6x)$$

```
No7 : N  = 120   ,
    : P1 = 6000  , P2 = 6300  , P3 = 6600  ,
    : B  = 300   , M  = 1217700
No8 : P  = 3     , L  = 11    , A  = 49    , D  = 30
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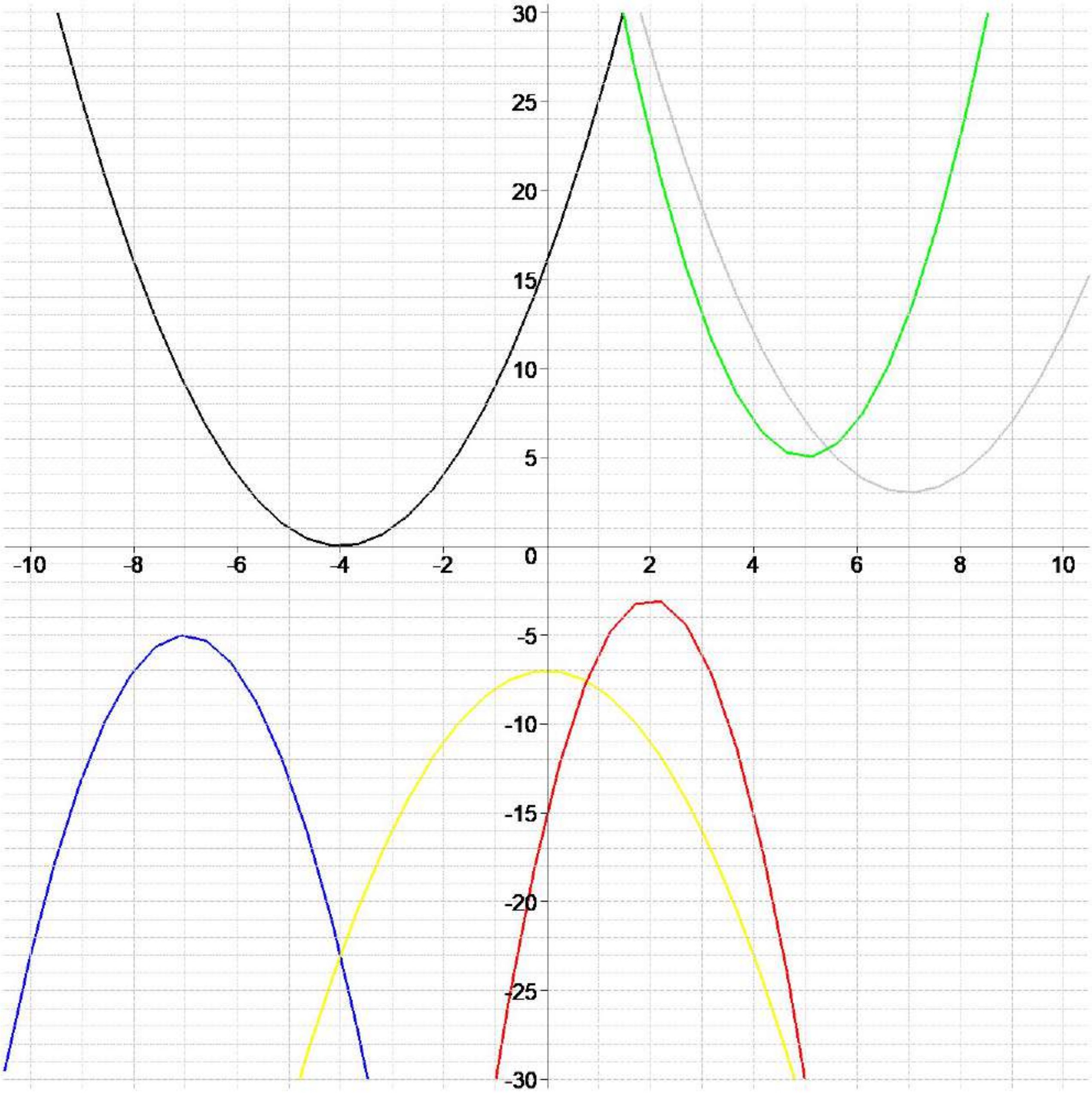
Function03 for No.14775

$$No1 = \begin{bmatrix} .1 = [y = -3\,x^2 + 12\,x - 15] & .3 = [y = -x^2 - 7] & .5 = [y = (x+4)^2] \\ .2 = [y = 2\,x^2 - 20\,x + 55] & .4 = [y = -2\,(x+7)^2 - 5] & .6 = [y = x^2 - 14\,x + 52] \end{bmatrix}$$



$$No2 = (\,f(x) = -x^2 - 6\,x + 7\,), \quad , No3 = (\,f(x) = -x^2 - 12\,x - 27\,)$$

$$No4 = (\,f(x) = -x^2 - 16\,x - 64\,), \quad , No5 = (\,f(x) = x^2 - 4\,x - 32\,)$$

$$No6 = (p = 100 - 0.4\,x)$$

```
No7 : N  = 80    ,
    : P1 = 3000  , P2 = 3500  , P3 = 4000  ,
    : B  = 500   , M  = 780000
No8 : P  = 11    , L  = 19    , A  = 16    , D  = 66
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