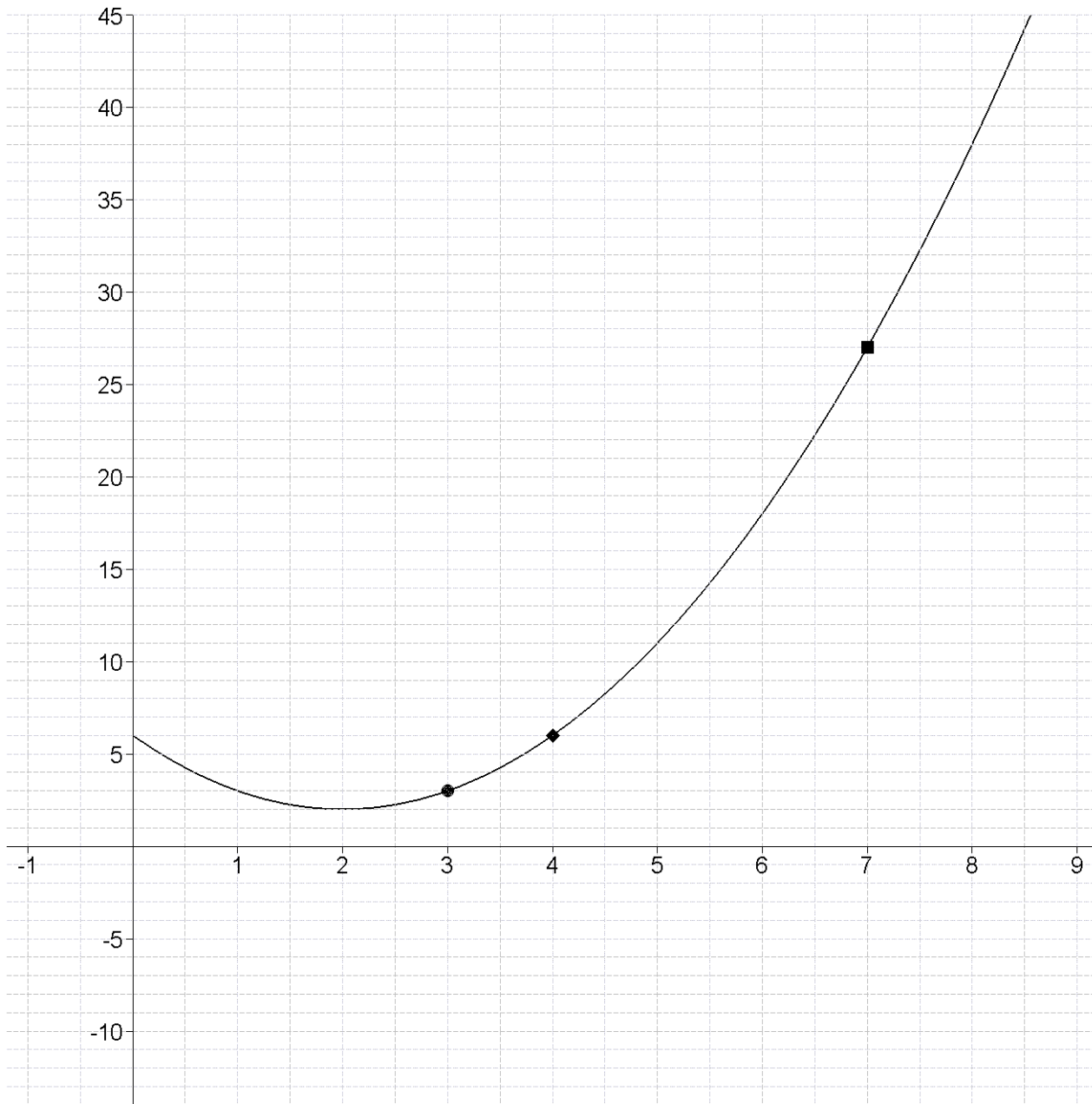


[illegible]

$$\begin{aligned} No01 &= \left(f(x) = \begin{bmatrix} 5x + 41 & ; & x < 4 \\ kx^2 - 3 & ; & x \geq 4 \end{bmatrix} \right), & No02 &= \left(f(x) = \begin{bmatrix} kx^2 - 77 & ; & x \leq -4 \\ 8x + k & ; & x > -4 \end{bmatrix} \right) \\ No03 &= \left(f(x) = \begin{bmatrix} 7x + b & ; & x < -3 \\ 3x^2 - 51 & ; & -3 \leq x \leq 2 \\ x^2 + ax - 35 & ; & x > 2 \end{bmatrix} \right), & No04 &= \left(f(x) = \begin{bmatrix} bx + 18 & ; & x \leq -3 \\ ax + b & ; & -3 < x < 4 \\ 3x + a & ; & x \geq 4 \end{bmatrix} \right) \end{aligned}$$

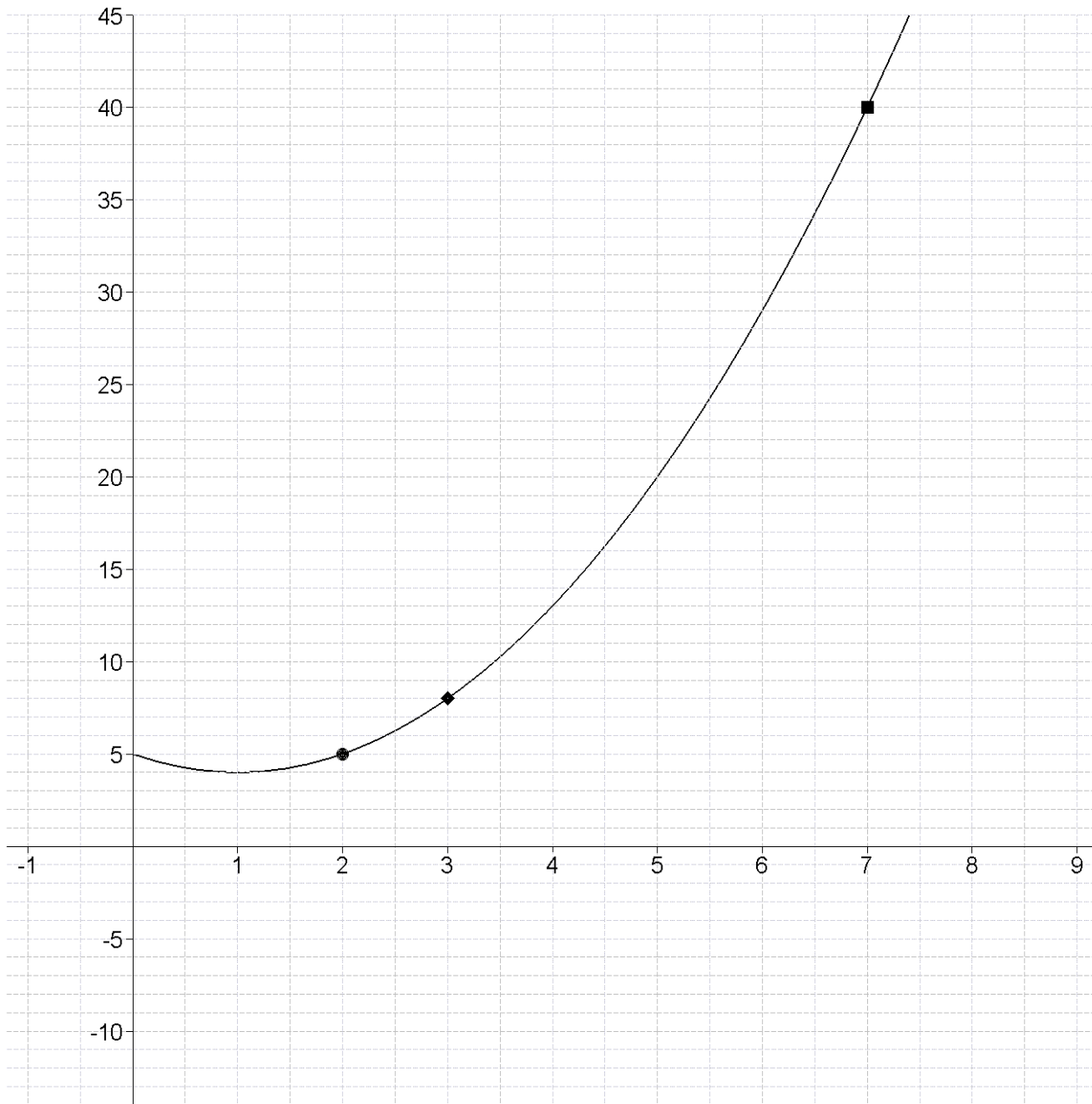
No05 = [$f(x) = (x - 2)^2 + 2$]

$$No06 = \begin{bmatrix} f(x) = 3x^2 + 5 \\ a = 4 \\ b = 4.2 \\ c = 4.1 \\ d = 4.01 \end{bmatrix}, \quad , No07 = \begin{bmatrix} a = 2 \\ b = 4 \end{bmatrix}, \quad , No08 = \begin{bmatrix} a = 4 \\ b = 7 \end{bmatrix}, \quad , No08 = \begin{bmatrix} a = 6 \\ b = 7 \end{bmatrix}$$

[illegible]

[illegible]

$$\begin{aligned}
 No01 &= \left(f(x) = \begin{bmatrix} 2x+k & ; & x < 4 \\ 4x^2-7 & ; & x >= 4 \end{bmatrix} \right), \quad No02 = \left(f(x) = \begin{bmatrix} 3x^2+k & ; & x <= -2 \\ kx+24 & ; & x > -2 \end{bmatrix} \right) \\
 No03 &= \left(f(x) = \begin{bmatrix} 2x^2+a & ; & x < -2 \\ bx^2-3x+2 & ; & -2 \leq x \leq 3 \\ -13+5x & ; & x > 3 \end{bmatrix} \right), \quad No04 = \left(f(x) = \begin{bmatrix} bx+13 & ; & x < -4 \\ ax+b & ; & -4 \leq x \leq 2 \\ 4x+a & ; & x \geq 2 \end{bmatrix} \right) \\
 No05 &= [f(x) = (x-1)^2 + 4] \\
 No06 &= \begin{bmatrix} f(x) = 5x^2 + 6 \\ a = 4 \\ b = 4.2 \\ c = 4.1 \\ d = 4.01 \end{bmatrix}, \quad No07 = \begin{bmatrix} a = 8 \\ b = 5 \end{bmatrix}, \quad No08 = \begin{bmatrix} a = 2 \\ b = 5 \end{bmatrix}, \quad No08 = \begin{bmatrix} a = 3 \\ b = 5 \end{bmatrix}
 \end{aligned}$$

[illegible]

$$No01 = \left(f(x) = \begin{bmatrix} kx + 21 & ; & x < 4 \\ 3x^2 - 7 & ; & x \geq 4 \end{bmatrix} \right), \quad No02 = \left(f(x) = \begin{bmatrix} 4x^2 + k & ; & x < -3 \\ kx + 60 & ; & x \geq -3 \end{bmatrix} \right)$$

$$No05 = [f(x) = (x - 3)^2 + 2]$$

$$No06 = \begin{bmatrix} f(x) = 5x^2 - 6 \\ a = 4 \\ b = 4.2 \\ c = 4.1 \\ d = 4.01 \end{bmatrix}, \quad No07 = \begin{bmatrix} a = 4 \\ b = 6 \end{bmatrix}, \quad No08 = \begin{bmatrix} a = 2 \\ b = 3 \end{bmatrix}, \quad No08 = \begin{bmatrix} a = 6 \\ b = 8 \end{bmatrix}$$



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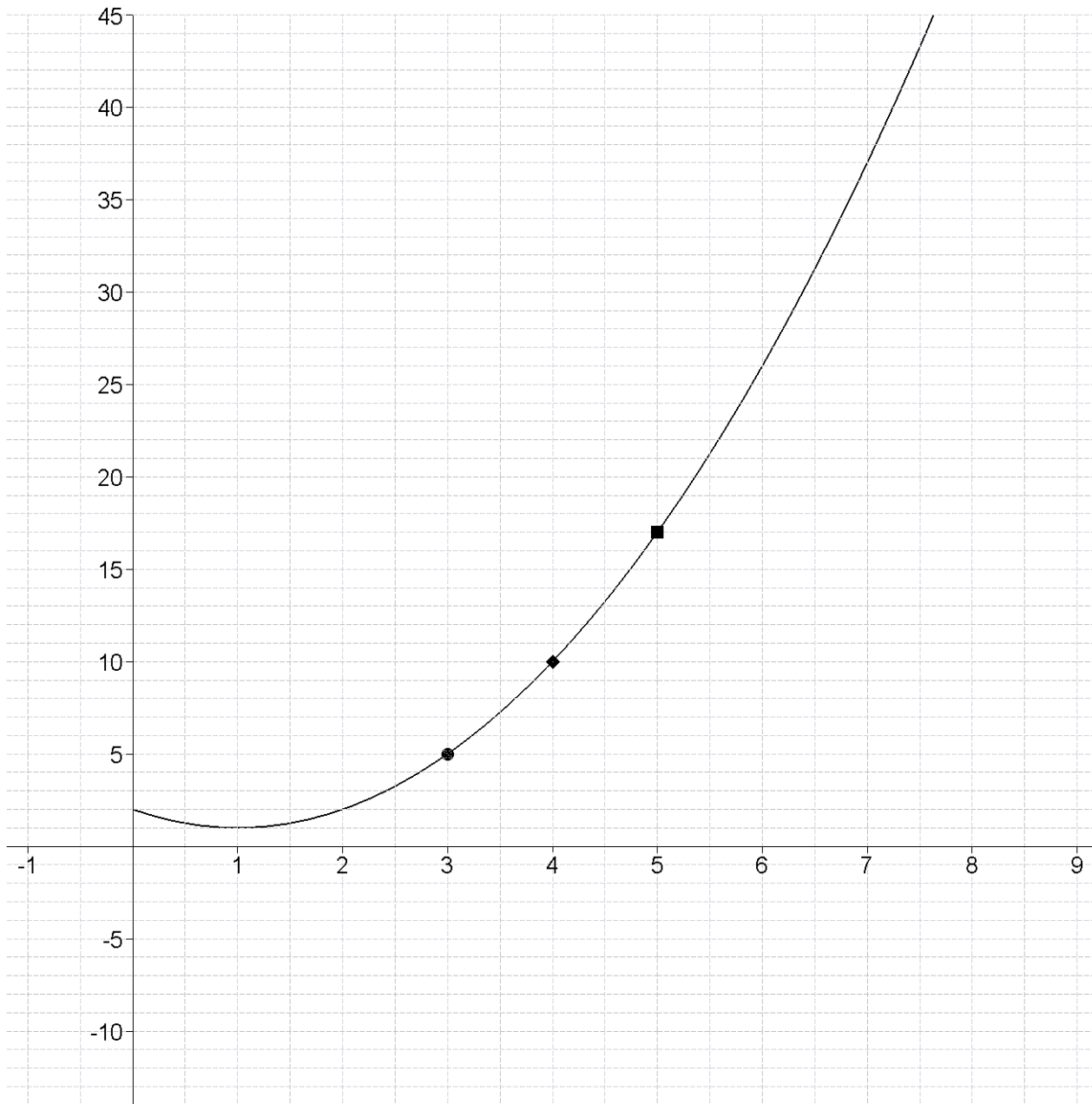
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Diff01 for No.11841

$$\begin{aligned} No01 &= \left(f(x) = \begin{bmatrix} 4x^2 - 2 & ; & x <= 2 \\ 3x + k & ; & x > 2 \end{bmatrix} \right), & No02 &= \left(f(x) = \begin{bmatrix} kx^2 - 54 & ; & x <= -4 \\ 6x + k & ; & x > -4 \end{bmatrix} \right) \\ No03 &= \left(f(x) = \begin{bmatrix} x^2 + b & ; & x < -3 \\ 13 + 2x & ; & -3 <= x < 4 \\ ax^2 + x - 31 & ; & x >= 4 \end{bmatrix} \right), & No04 &= \left(f(x) = \begin{bmatrix} bx + 15 & ; & x <= -2 \\ ax + b & ; & -2 < x <= 4 \\ 4x + a & ; & x > 4 \end{bmatrix} \right) \end{aligned}$$

No05 = [$f(x) = (x - 1)^2 + 1$]

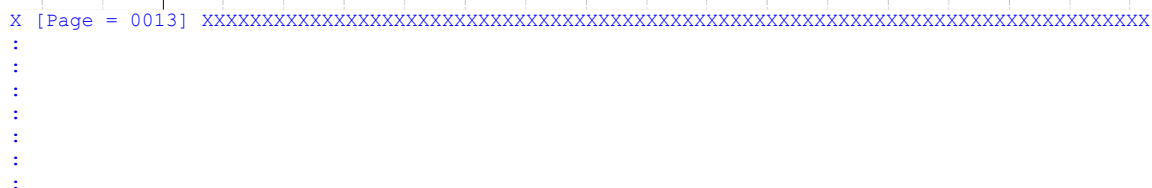
$$No06 = \begin{bmatrix} f(x) = 2x^2 - 7 \\ a = 3 \\ b = 3.2 \\ c = 3.1 \\ d = 3.01 \end{bmatrix}, \quad , No07 = \begin{bmatrix} a = 5 \\ b = 2 \end{bmatrix}, \quad , No08 = \begin{bmatrix} a = 7 \\ b = 5 \end{bmatrix}, \quad , No08 = \begin{bmatrix} a = 6 \\ b = 7 \end{bmatrix}$$

[illegible]

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$$\begin{aligned} No01 &= \left(f(x) = \begin{bmatrix} 3x^2 - 7 & ; & x < 3 \\ 4x + k & ; & x \geq 3 \end{bmatrix} \right), \quad No02 = \left(f(x) = \begin{bmatrix} kx^2 - 64 & ; & x < -3 \\ 8x + k & ; & x \geq -3 \end{bmatrix} \right) \\ No03 &= \left(f(x) = \begin{bmatrix} x^2 + ax - 3 & ; & x < -3 \\ 33 + 2x & ; & -3 \leq x < 4 \\ 3x^2 + b & ; & x \geq 4 \end{bmatrix} \right), \quad No04 = \left(f(x) = \begin{bmatrix} bx + 22 & ; & x < -3 \\ ax + b & ; & -3 \leq x < 5 \\ 3x + a & ; & x \geq 5 \end{bmatrix} \right) \end{aligned}$$

$$No06 = \begin{bmatrix} f(x) = 3x^2 - 8 \\ a = 2 \\ b = 2.2 \\ c = 2.1 \\ d = 2.01 \end{bmatrix}, \quad , No07 = \begin{bmatrix} a = 8 \\ b = 7 \end{bmatrix}, \quad , No08 = \begin{bmatrix} a = 7 \\ b = 5 \end{bmatrix}, \quad , No08 = \begin{bmatrix} a = 5 \\ b = 7 \end{bmatrix}$$



$$No01 = \left(f(x) = \begin{bmatrix} 6x+k & ; & x < 2 \\ 4x^2-6 & ; & x \geq 2 \end{bmatrix} \right), \quad No02 = \left(f(x) = \begin{bmatrix} 4x^2+k & ; & x < -2 \\ kx+22 & ; & x \geq -2 \end{bmatrix} \right)$$

$$No05 = [f(x) = (x - 3)^2 + 5]$$

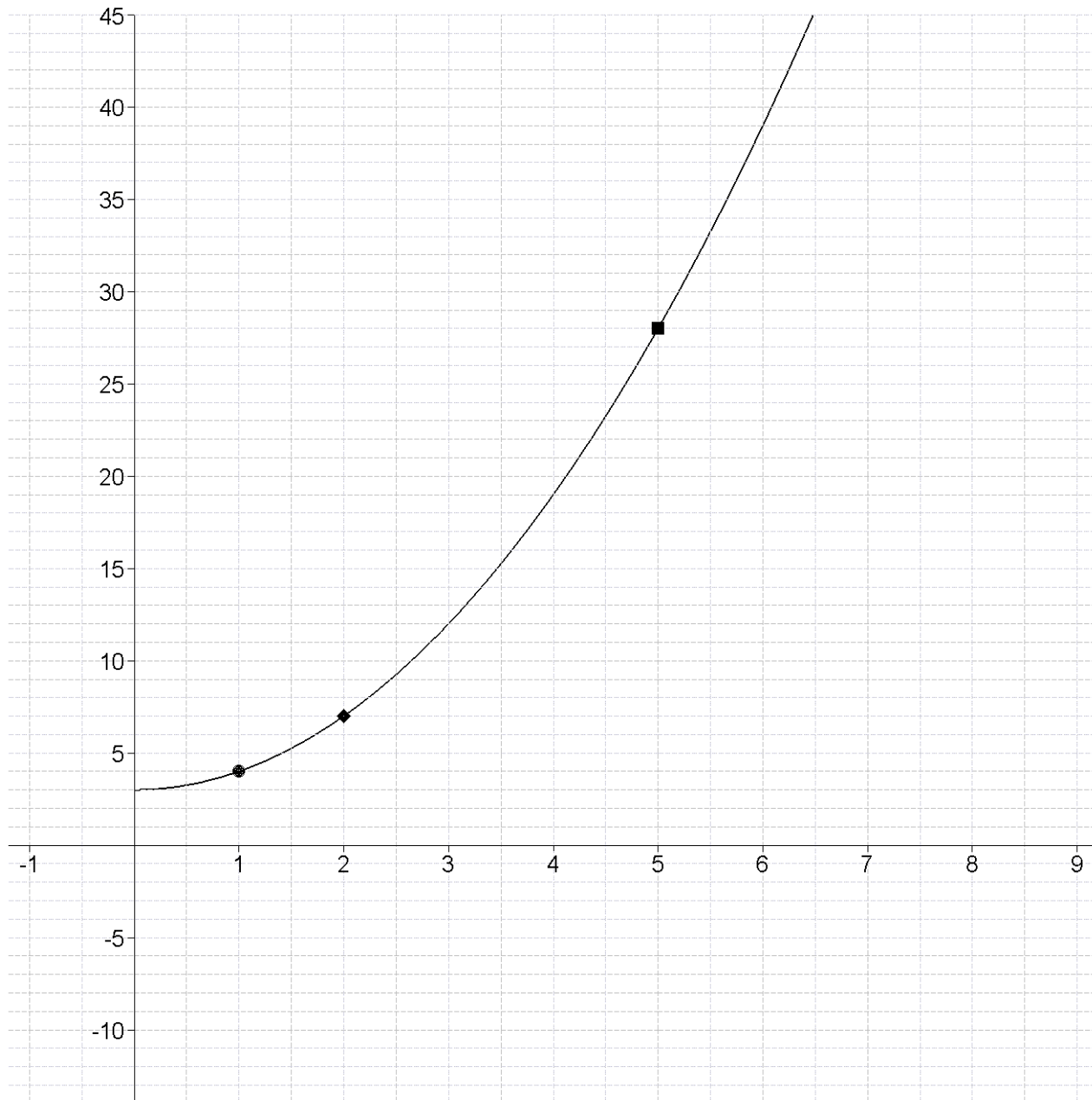
$$, No07 = \begin{bmatrix} a = 7 \\ b = 6 \end{bmatrix}, \quad , No08 = \begin{bmatrix} a = 7 \\ b = 4 \end{bmatrix}, \quad , No08 = \begin{bmatrix} a = 6 \\ b = 7 \end{bmatrix}$$



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$$\begin{aligned} No01 &= \left(f(x) = \begin{bmatrix} kx + 10 & ; & x < 2 \\ 3x^2 + 2 & ; & x \geq 2 \end{bmatrix} \right), \quad No02 = \left(f(x) = \begin{bmatrix} kx^2 - 87 & ; & x \leq -4 \\ 3x + k & ; & x > -4 \end{bmatrix} \right) \\ No03 &= \left(f(x) = \begin{bmatrix} 3 + 2x & ; & x \leq -2 \\ x^2 + b & ; & -2 < x \leq 4 \\ 3x^2 + ax - 13 & ; & x > 4 \end{bmatrix} \right), \quad No04 = \left(f(x) = \begin{bmatrix} bx + 14 & ; & x < -4 \\ ax + b & ; & -4 \leq x < 2 \\ 5x + a & ; & x \geq 2 \end{bmatrix} \right) \\ No05 &= [f(x) = x^2 + 3] \end{aligned}$$

$$No06 = \begin{bmatrix} f(x) = 2x^2 - 7 \\ a = 4 \\ b = 4.2 \\ c = 4.1 \\ d = 4.01 \end{bmatrix}, \quad , No07 = \begin{bmatrix} a = 6 \\ b = 7 \end{bmatrix}, \quad , No08 = \begin{bmatrix} a = 6 \\ b = 4 \end{bmatrix}, \quad , No08 = \begin{bmatrix} a = 8 \\ b = 2 \end{bmatrix}$$

[illegible]

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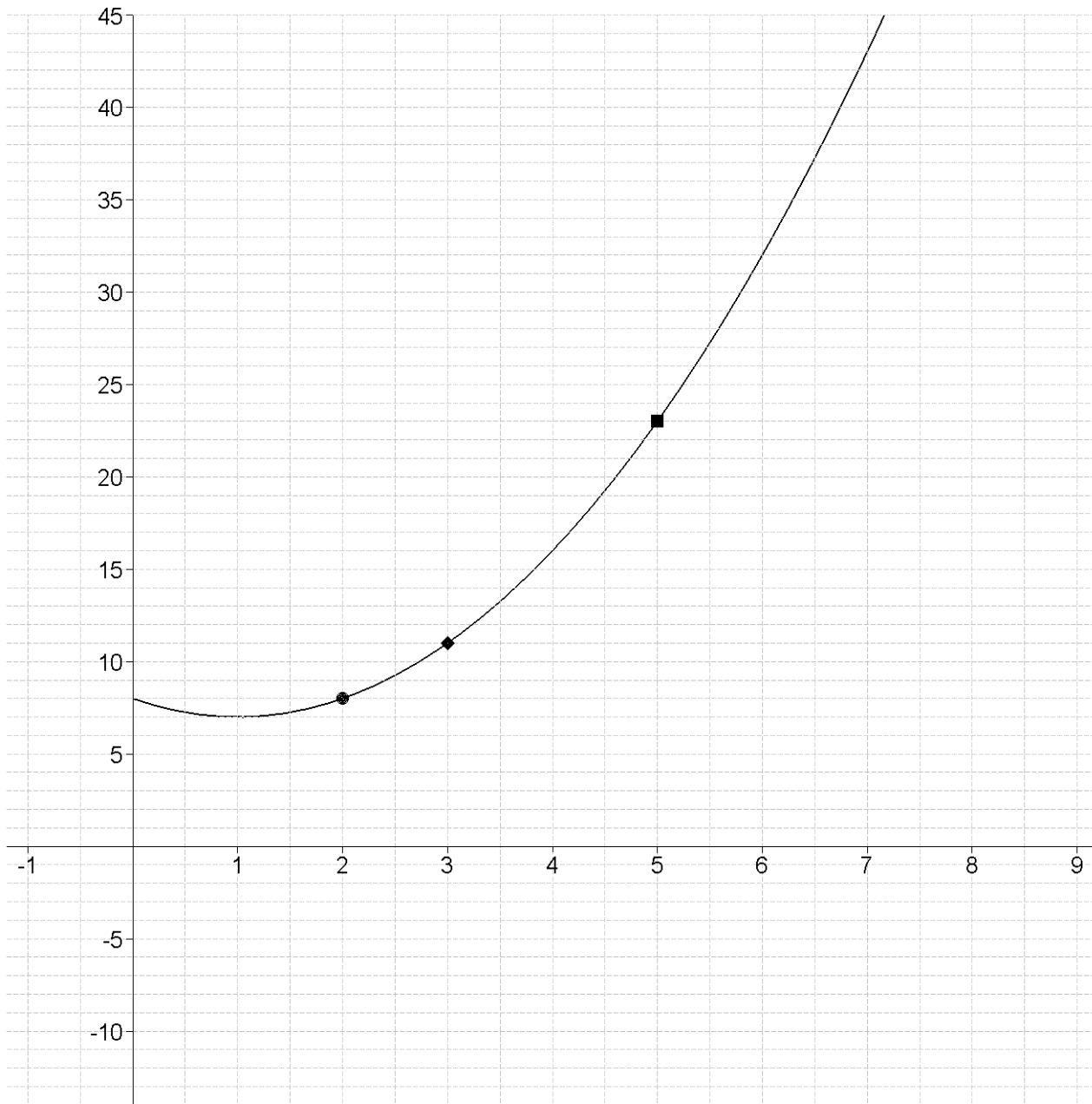
Diff01 for No.12890

$$No01 = \left(f(x) = \begin{bmatrix} kx^2 - 3 & ; & x < 3 \\ 4x + 12 & ; & x \geq 3 \end{bmatrix} \right), \quad No02 = \left(f(x) = \begin{bmatrix} kx + 35 & ; & x < -3 \\ 3x^2 + k & ; & x \geq -3 \end{bmatrix} \right)$$

$$No03 = \left(f(x) = \begin{bmatrix} 3x^2 - 5x + a & ; & x < -4 \\ bx^2 + 39 & ; & -4 \leq x < 2 \\ 41 + 3x & ; & x \geq 2 \end{bmatrix} \right), \quad No04 = \left(f(x) = \begin{bmatrix} ax + 18 & ; & x < -4 \\ bx + a & ; & -4 \leq x < 3 \\ 4x + b & ; & x \geq 3 \end{bmatrix} \right)$$

No05 = [$f(x) = (x - 1)^2 + 7$]

$$No06 = \begin{bmatrix} f(x) = 5x^2 - 6 \\ a = 3 \\ b = 3.2 \\ c = 3.1 \\ d = 3.01 \end{bmatrix}, \quad , No07 = \begin{bmatrix} a = 7 \\ b = 8 \end{bmatrix}, \quad , No08 = \begin{bmatrix} a = 2 \\ b = 7 \end{bmatrix}, \quad , No08 = \begin{bmatrix} a = 8 \\ b = 5 \end{bmatrix}$$

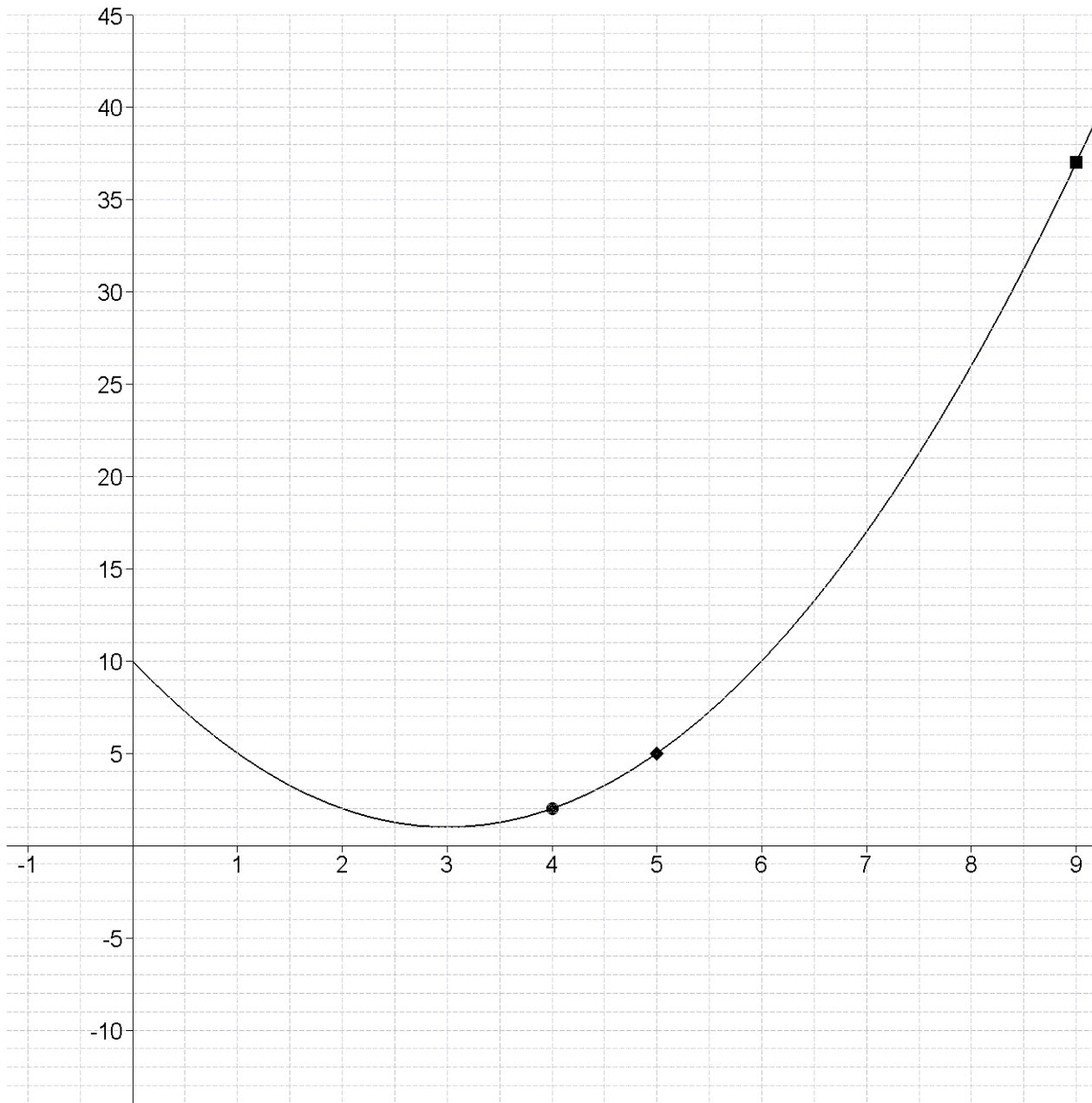
[illegible]

$$No01 = \left(f(x) = \begin{bmatrix} kx^2 + 6 & ; & x < 2 \\ 5x + 8 & ; & x \geq 2 \end{bmatrix} \right), \quad No02 = \left(f(x) = \begin{bmatrix} kx^2 - 53 & ; & x < -3 \\ 7x + k & ; & x \geq -3 \end{bmatrix} \right)$$

$$No03 = \left(f(x) = \begin{bmatrix} 6x + a & ; & x < -2 \\ 2x^2 - 19 & ; & -2 \leq x < 4 \\ x^2 + bx + 13 & ; & x \geq 4 \end{bmatrix} \right), \quad No04 = \left(f(x) = \begin{bmatrix} ax + 10 & ; & x \leq -3 \\ bx + a & ; & -3 < x \leq 2 \\ 3x + b & ; & x > 2 \end{bmatrix} \right)$$

$$No05 = [f(x) = (x - 3)^2 + 1]$$

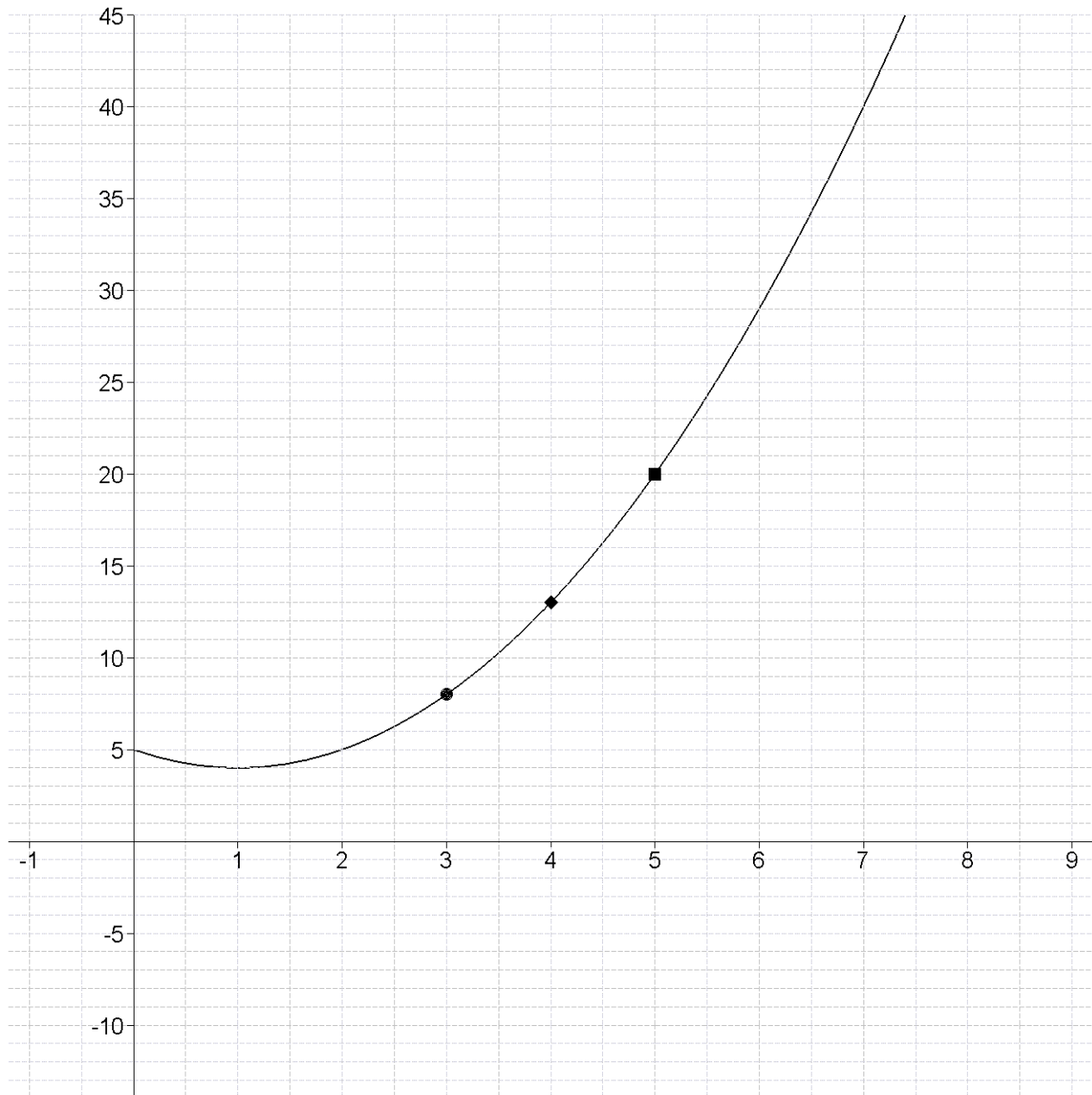
$$No06 = \begin{bmatrix} f(x) = 7x^2 - 6 \\ a = 4 \\ b = 4.2 \\ c = 4.1 \\ d = 4.01 \end{bmatrix}, \quad , No07 = \begin{bmatrix} a = 3 \\ b = 4 \end{bmatrix}, \quad , No08 = \begin{bmatrix} a = 7 \\ b = 3 \end{bmatrix}, \quad , No08 = \begin{bmatrix} a = 7 \\ b = 3 \end{bmatrix}$$



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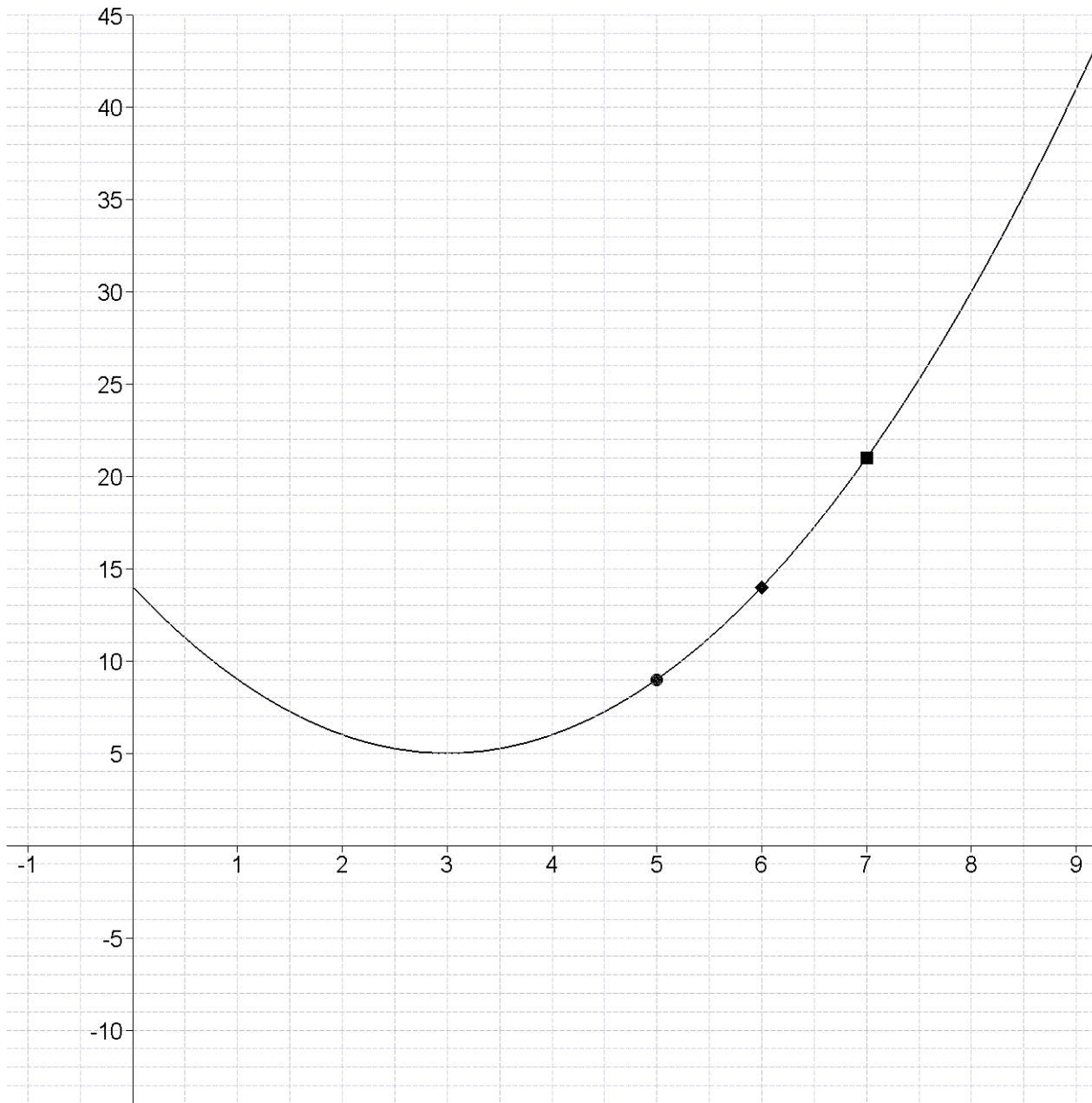
$$\begin{aligned} No01 &= \left(f(x) = \begin{bmatrix} 3x^2 + k & ; & x <= 4 \\ 5x + 31 & ; & x > 4 \end{bmatrix} \right), \quad No02 = \left(f(x) = \begin{bmatrix} kx^2 - 106 & ; & x < -4 \\ 4x + k & ; & x >= -4 \end{bmatrix} \right) \\ No03 &= \left(f(x) = \begin{bmatrix} -1 + ax & ; & x <= -4 \\ 3x^2 + b & ; & -4 < x < 3 \\ 2x^2 - 5x - 53 & ; & x >= 3 \end{bmatrix} \right), \quad No04 = \left(f(x) = \begin{bmatrix} ax + 22 & ; & x < -3 \\ bx + a & ; & -3 <= x <= 5 \\ 3x + b & ; & x > 5 \end{bmatrix} \right) \\ No05 &= [f(x) = (x - 1)^2 + 4] \end{aligned}$$

$$No06 = \begin{bmatrix} f(x) = 5x^2 + 3 \\ a = 2 \\ b = 2.2 \\ c = 2.1 \\ d = 2.01 \end{bmatrix}, \quad No07 = \begin{bmatrix} a = 2 \\ b = 8 \end{bmatrix}, \quad No08 = \begin{bmatrix} a = 2 \\ b = 5 \end{bmatrix}, \quad No08 = \begin{bmatrix} a = 7 \\ b = 3 \end{bmatrix}$$



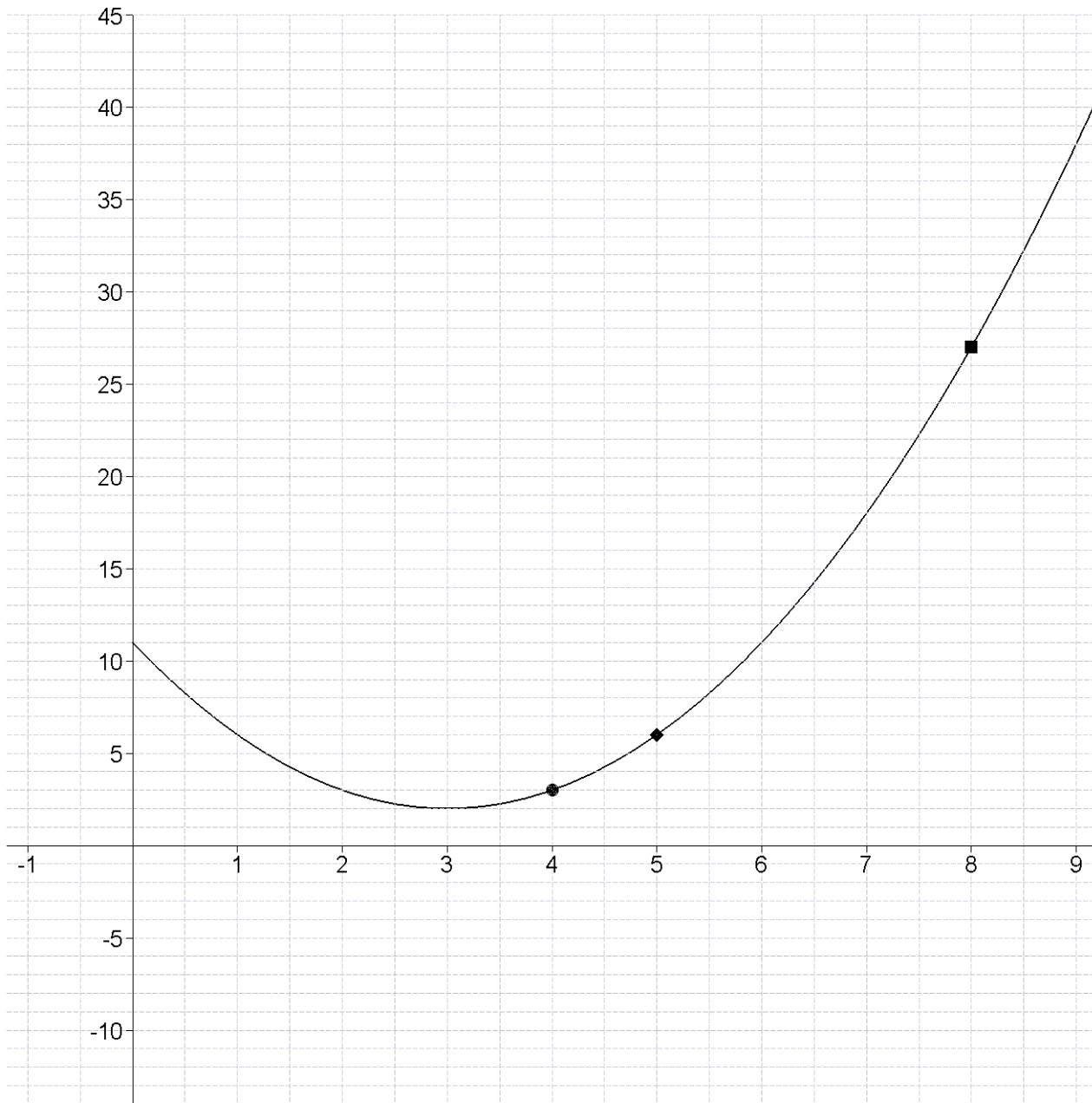
[illegible]

$$\begin{aligned}
 No01 &= \left(f(x) = \begin{bmatrix} 6x & ; & x < 2 \\ kx^2 + 4 & ; & x \geq 2 \end{bmatrix} \right), & No02 &= \left(f(x) = \begin{bmatrix} kx + 58 & ; & x \leq -4 \\ 3x^2 + k & ; & x > -4 \end{bmatrix} \right) \\
 No03 &= \left(f(x) = \begin{bmatrix} ax^2 - 4 & ; & x \leq -2 \\ x^2 - 2x + b & ; & -2 < x < 3 \\ -10 + 3x & ; & x \geq 3 \end{bmatrix} \right), & No04 &= \left(f(x) = \begin{bmatrix} ax + 20 & ; & x \leq -4 \\ bx + a & ; & -4 < x < 3 \\ 6x + b & ; & x \geq 3 \end{bmatrix} \right) \\
 No05 &= [f(x) = (x - 3)^2 + 5] \\
 No06 &= \begin{bmatrix} f(x) = 3x^2 - 8 \\ a = 2 \\ b = 2.2 \\ c = 2.1 \\ d = 2.01 \end{bmatrix}, & No07 &= \begin{bmatrix} a = 5 \\ b = 4 \end{bmatrix}, & No08 &= \begin{bmatrix} a = 2 \\ b = 5 \end{bmatrix}, & No08 &= \begin{bmatrix} a = 7 \\ b = 5 \end{bmatrix}
 \end{aligned}$$

[illegible]


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Diff01 for No.646104
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$$\begin{aligned} No01 &= \left(f(x) = \begin{bmatrix} kx^2 + 1 & ; & x \leq 3 \end{bmatrix}, \quad No02 = \left(f(x) = \begin{bmatrix} 7x + k & ; & x \leq -4 \end{bmatrix} \right) \\ No03 &= \left(f(x) = \begin{bmatrix} 3x + b & ; & x \leq -4 \\ ax^2 - 25 & ; & -4 < x \leq 2 \\ 3x^2 + 6x - 45 & ; & x > 2 \end{bmatrix}, \quad No04 = \left(f(x) = \begin{bmatrix} ax + 12 & ; & x < -4 \\ bx + a & ; & -4 \leq x < 2 \\ 3x + b & ; & x \geq 2 \end{bmatrix} \right) \\ No05 &= [f(x) = (x - 3)^2 + 2] \\ No06 &= \begin{bmatrix} f(x) = 5x^2 + 2 \\ a = 4 \\ b = 4.2 \\ c = 4.1 \\ d = 4.01 \end{bmatrix}, \quad No07 = \begin{bmatrix} a = 6 \\ b = 8 \end{bmatrix}, \quad No08 = \begin{bmatrix} a = 7 \\ b = 4 \end{bmatrix}, \quad No08 = \begin{bmatrix} a = 3 \\ b = 5 \end{bmatrix} \end{aligned}$$

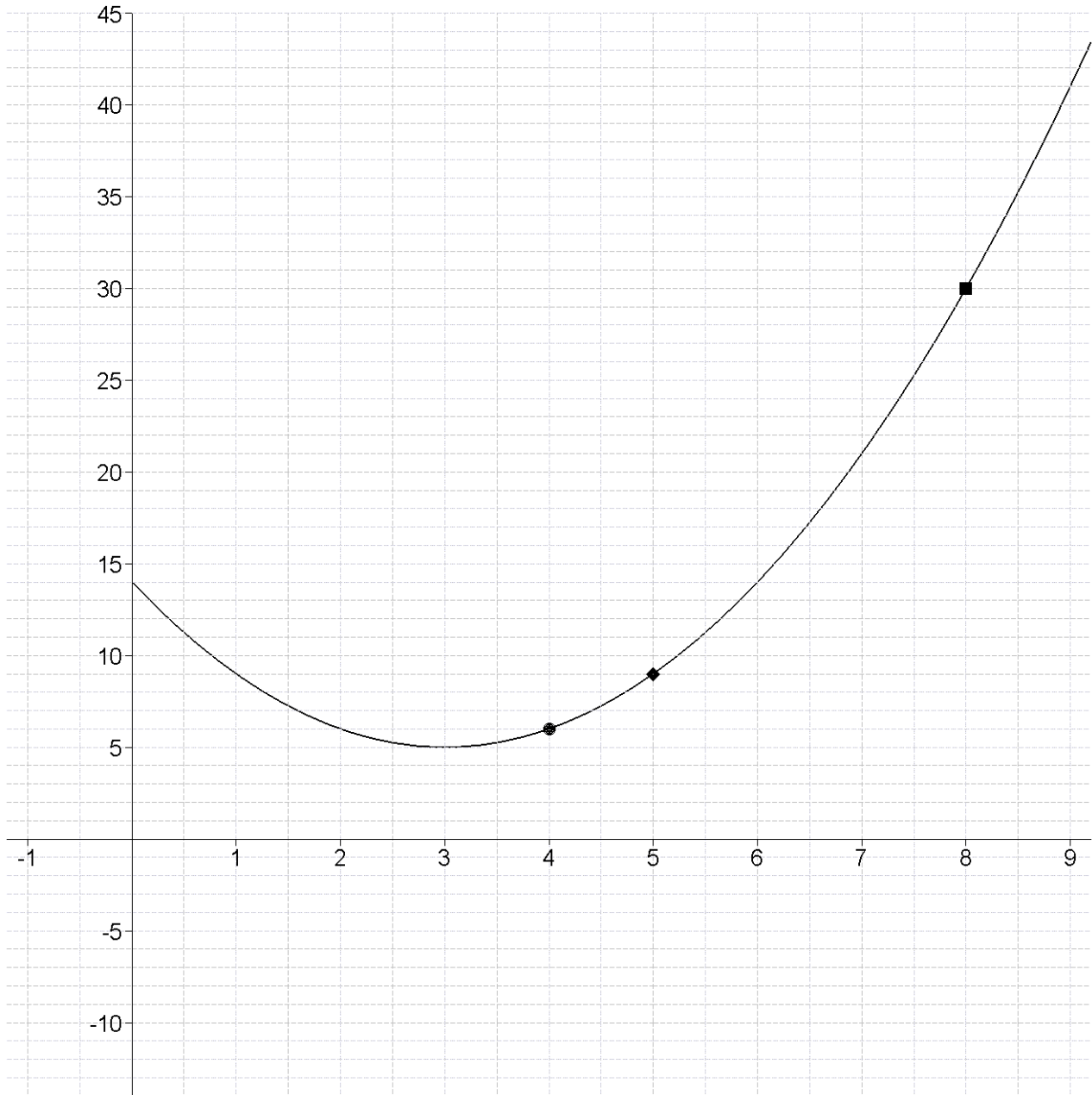
[illegible]


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Diff01 for No.646107
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$$\begin{aligned} No01 &= \left(f(x) = \begin{bmatrix} 3x^2 + k & ; & x < 4 \\ 7x + 15 & ; & x \geq 4 \end{bmatrix} \right), & No02 &= \left(f(x) = \begin{bmatrix} 3x^2 + k & ; & x \leq -4 \\ kx + 68 & ; & x > -4 \end{bmatrix} \right) \\ No03 &= \left(f(x) = \begin{bmatrix} x^2 + 3x - 1 & ; & x < -4 \\ 7x + a & ; & -4 \leq x \leq 2 \\ bx^2 + 33 & ; & x > 2 \end{bmatrix} \right), & No04 &= \left(f(x) = \begin{bmatrix} 15 + ax & ; & x < -3 \\ bx + a & ; & -3 \leq x < 3 \\ 4x + b & ; & x \geq 3 \end{bmatrix} \right) \end{aligned}$$

No05 = [$f(x) = (x - 3)^2 + 5$]

$$No06 = \begin{bmatrix} f(x) = 6x^2 + 7 \\ a = 2 \\ b = 2.2 \\ c = 2.1 \\ d = 2.01 \end{bmatrix}, \quad No07 = \begin{bmatrix} a = 4 \\ b = 3 \end{bmatrix}, \quad No08 = \begin{bmatrix} a = 5 \\ b = 2 \end{bmatrix}, \quad No08 = \begin{bmatrix} a = 3 \\ b = 7 \end{bmatrix}$$

[illegible]

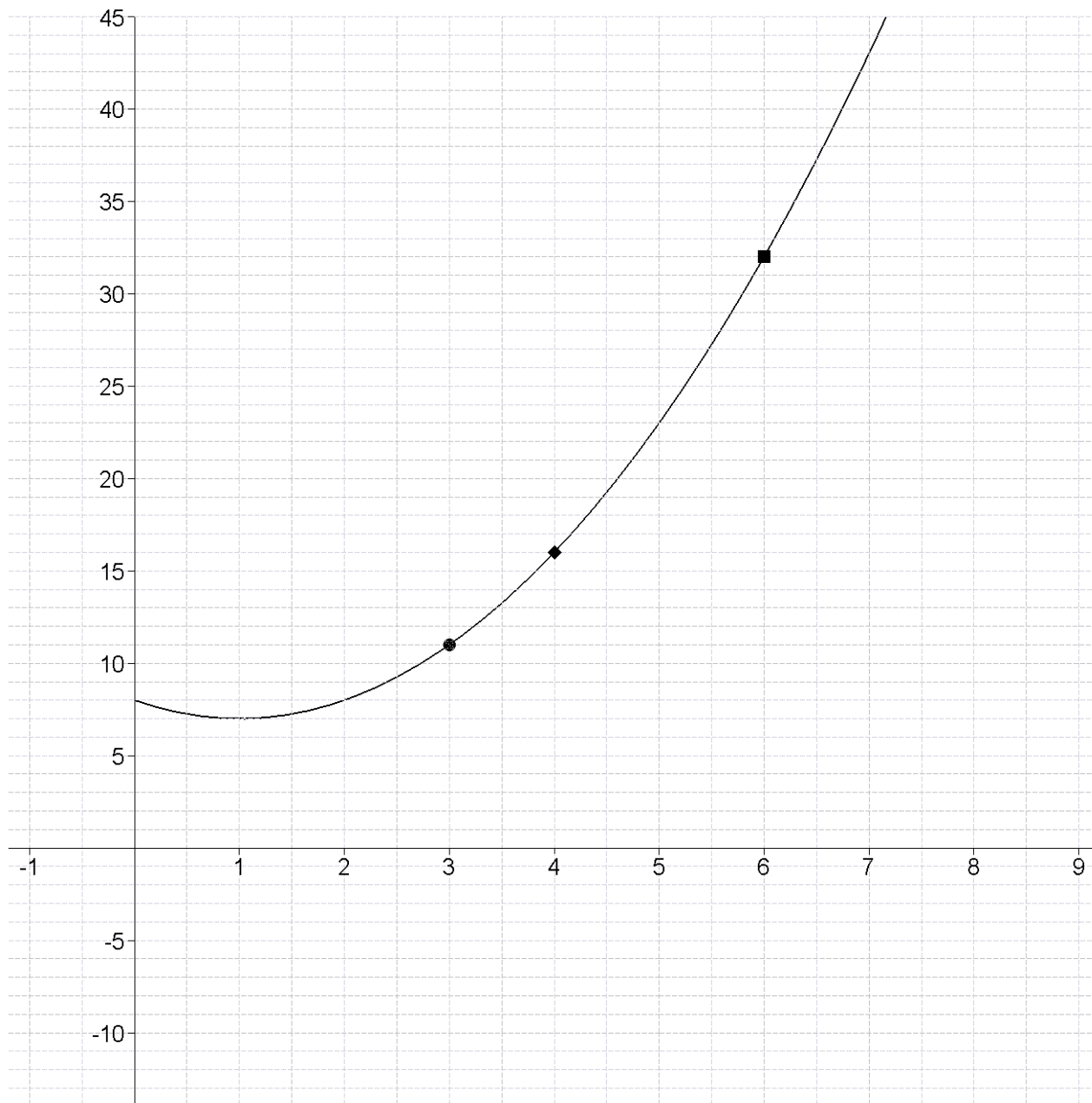
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Diff01 for No.646109

$$\begin{aligned} No01 &= \left(f(x) = \begin{bmatrix} 3x^2 + 3 & ; & x < 4 \\ kx + 19 & ; & x \geq 4 \end{bmatrix} \right), & No02 &= \left(f(x) = \begin{bmatrix} kx + 73 & ; & x \leq -4 \\ 3x^2 + k & ; & x > -4 \end{bmatrix} \right) \\ No03 &= \left(f(x) = \begin{bmatrix} bx^2 - 2 & ; & x < -2 \\ 3x + a & ; & -2 \leq x < 3 \\ x^2 + 7x - 9 & ; & x \geq 3 \end{bmatrix} \right), & No04 &= \left(f(x) = \begin{bmatrix} ax + 28 & ; & x \leq -4 \\ bx + a & ; & -4 < x \leq 5 \\ 4x + b & ; & x > 5 \end{bmatrix} \right) \end{aligned}$$

No05 = [f(x) = (x - 1)² + 7]

$$No06 = \begin{bmatrix} f(x) = 7x^2 - 4 \\ a = 3 \\ b = 3.2 \\ c = 3.1 \\ d = 3.01 \end{bmatrix}, \quad No07 = \begin{bmatrix} a = 4 \\ b = 8 \end{bmatrix}, \quad No08 = \begin{bmatrix} a = 4 \\ b = 6 \end{bmatrix}, \quad No08 = \begin{bmatrix} a = 4 \\ b = 7 \end{bmatrix}$$

[illegible]

$$No01 = \left(f(x) = \begin{bmatrix} 4x^2 - 2 & ; & x \leq 3 \\ 3x + k & ; & x > 3 \end{bmatrix} \right), \quad No02 = \left(f(x) = \begin{bmatrix} kx + 35 & ; & x < -3 \\ 3x^2 + k & ; & x \geq -3 \end{bmatrix} \right)$$

No05 = [f(x) = (x - 3)² + 3]

$$No06 = \begin{bmatrix} f(x) = 7x^2 - 5 \\ a = 2 \\ b = 2.2 \\ c = 2.1 \\ d = 2.01 \end{bmatrix}, \quad , No07 = \begin{bmatrix} a = 8 \\ b = 2 \end{bmatrix}, \quad , No08 = \begin{bmatrix} a = 7 \\ b = 6 \end{bmatrix}, \quad , No08 = \begin{bmatrix} a = 5 \\ b = 4 \end{bmatrix}$$



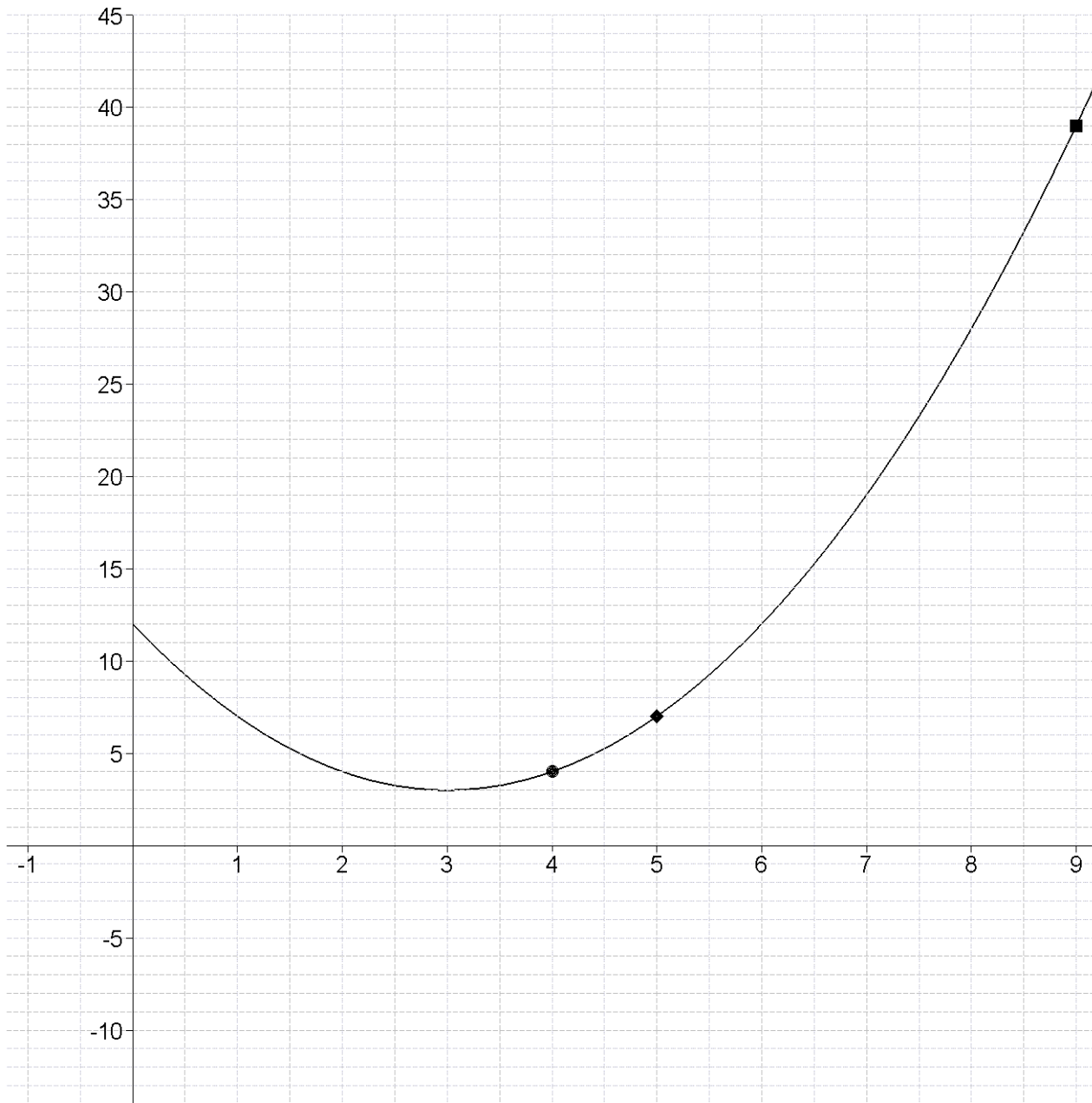
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[illegible]

$$\begin{aligned} No01 &= \left(f(x) = \begin{bmatrix} 3x + 27 & ; & x \leq 4 \\ 2x^2 + k & ; & x > 4 \end{bmatrix} \right), & No02 &= \left(f(x) = \begin{bmatrix} 2x^2 + k & ; & x < -3 \\ kx + 42 & ; & x \geq -3 \end{bmatrix} \right) \\ No03 &= \left(f(x) = \begin{bmatrix} ax^2 - 5 & ; & x < -2 \\ 3 + 2x & ; & -2 \leq x < 3 \\ 2x^2 + bx + 12 & ; & x \geq 3 \end{bmatrix} \right), & No04 &= \left(f(x) = \begin{bmatrix} bx + 14 & ; & x < -2 \\ ax + b & ; & -2 \leq x \leq 4 \\ 3x + a & ; & x > 4 \end{bmatrix} \right) \end{aligned}$$

No05 = [$f(x) = (x - 3)^2 + 3$]

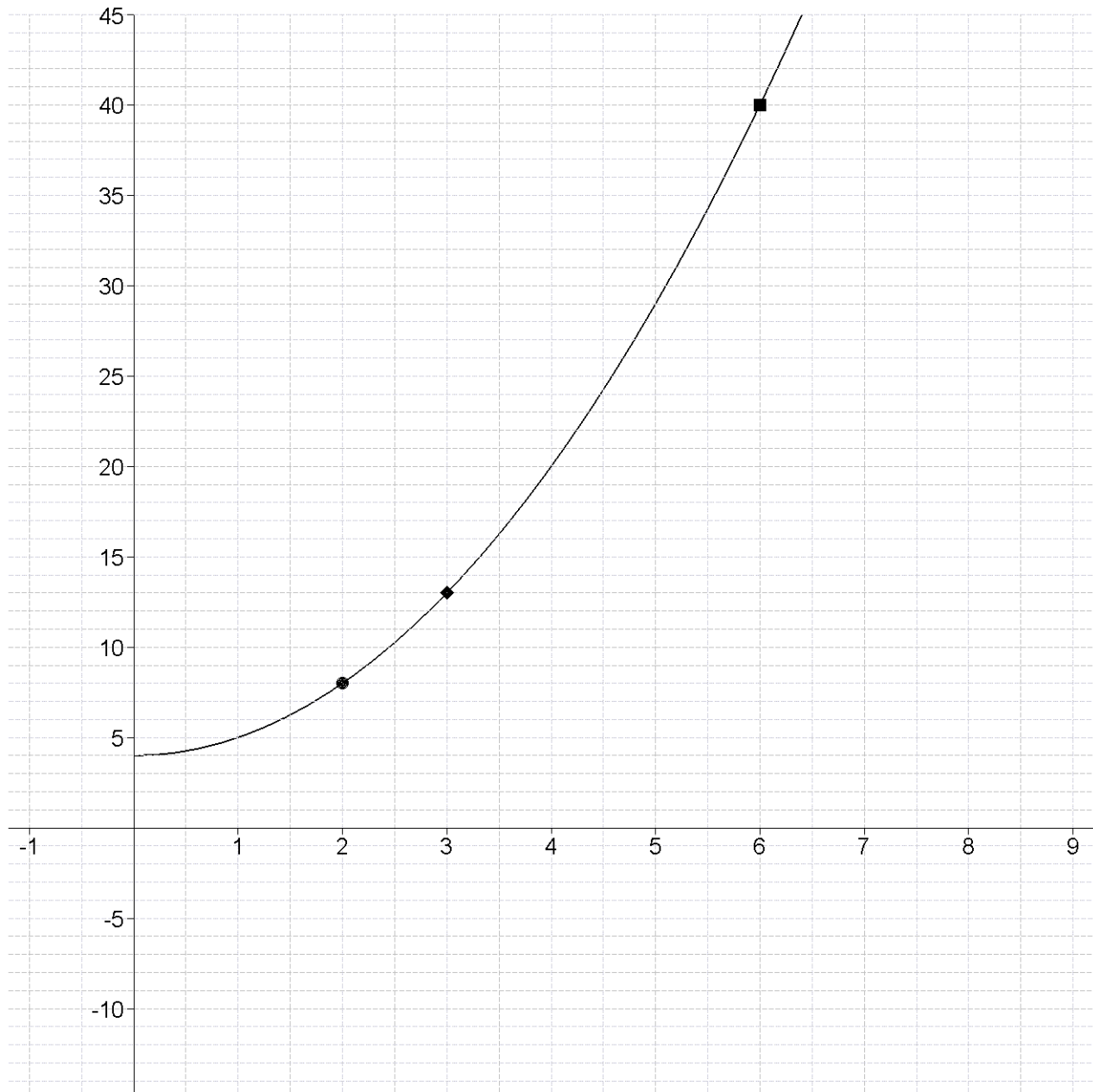
$$No06 = \begin{bmatrix} f(x) = 7x^2 + 3 \\ a = 2 \\ b = 2.2 \\ c = 2.1 \\ d = 2.01 \end{bmatrix}, \quad , No07 = \begin{bmatrix} a = 7 \\ b = 5 \end{bmatrix}, \quad , No08 = \begin{bmatrix} a = 2 \\ b = 6 \end{bmatrix}, \quad , No08 = \begin{bmatrix} a = 8 \\ b = 7 \end{bmatrix}$$

[illegible]

$$\begin{aligned} No01 &= \left(f(x) = \begin{bmatrix} kx + 33 & ; & x < 4 \\ 3x^2 - 7 & ; & x \geq 4 \end{bmatrix} \right), \quad No02 = \left(f(x) = \begin{bmatrix} kx + 63 & ; & x < -4 \\ 3x^2 + k & ; & x \geq -4 \end{bmatrix} \right) \\ No03 &= \left(f(x) = \begin{bmatrix} x^2 + a & ; & x \leq -3 \\ 3x^2 - x - 25 & ; & -3 < x \leq 4 \\ 7 + bx & ; & x > 4 \end{bmatrix} \right), \quad No04 = \left(f(x) = \begin{bmatrix} bx + 13 & ; & x \leq -4 \\ ax + b & ; & -4 < x \leq 2 \\ 4x + a & ; & x > 2 \end{bmatrix} \right) \end{aligned}$$

$$No05 = [f(x) = x^2 + 4]$$

$$No06 = \begin{bmatrix} f(x) = 2x^2 - 3 \\ a = 4 \\ b = 4.2 \\ c = 4.1 \\ d = 4.01 \end{bmatrix}, \quad No07 = \begin{bmatrix} a = 2 \\ b = 7 \end{bmatrix}, \quad No08 = \begin{bmatrix} a = 4 \\ b = 2 \end{bmatrix}, \quad No09 = \begin{bmatrix} a = 8 \\ b = 6 \end{bmatrix}$$



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$No05 = [f(x) = x^2 + 4]$

$$, No07 = \begin{bmatrix} a = 5 \\ b = 4 \end{bmatrix},$$

$$, No08 = \begin{bmatrix} a = 8 \\ b = 5 \end{bmatrix};$$

$$, No08 = \begin{bmatrix} a = 4 \\ b = 8 \end{bmatrix}$$



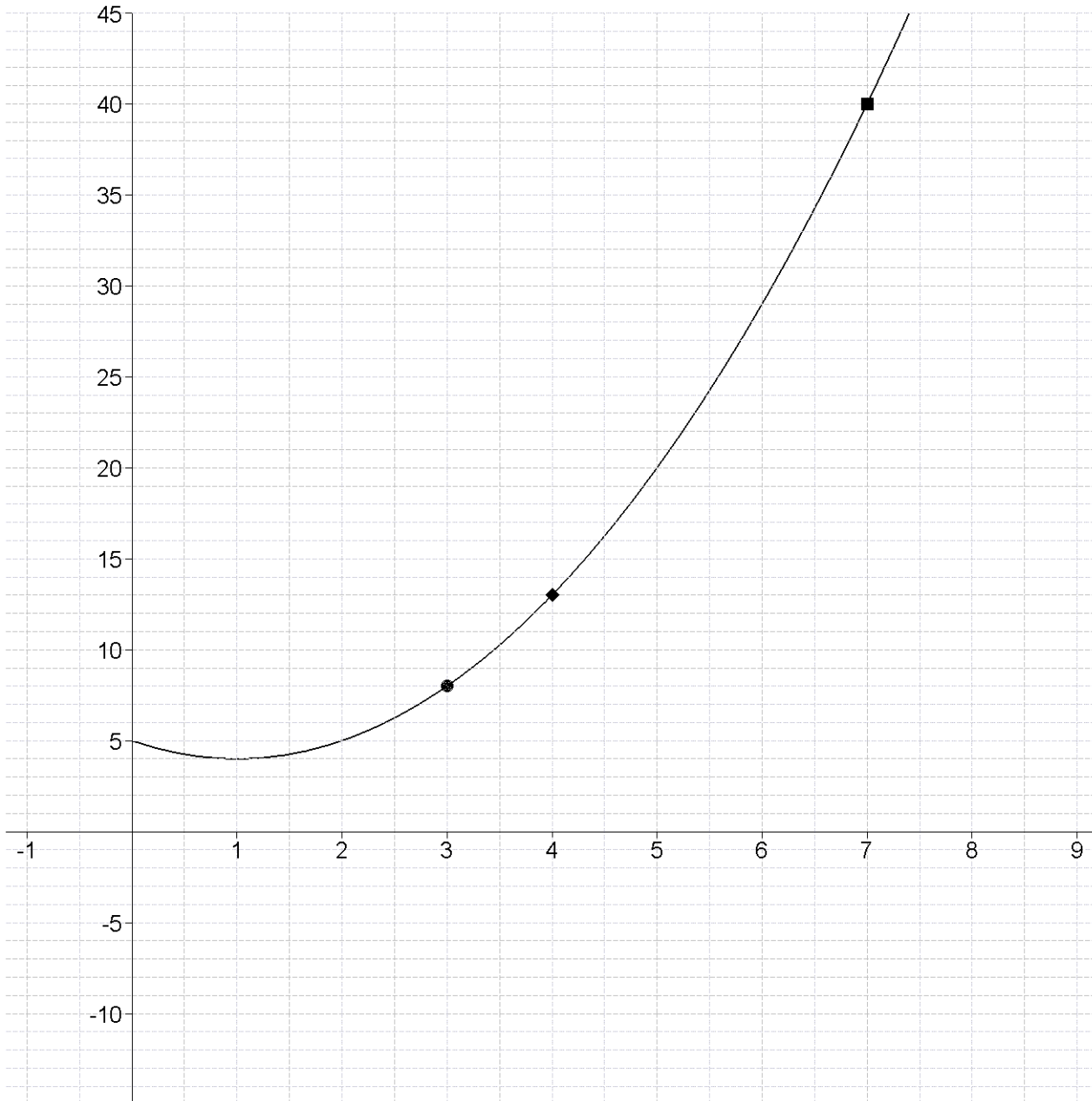
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[illegible]

$$\begin{aligned} No01 &= \left(f(x) = \begin{bmatrix} kx^2 + 7 & ; & x < 3 \\ 6x + 7 & ; & x \geq 3 \end{bmatrix} \right), \quad No02 = \left(f(x) = \begin{bmatrix} 5x + k & ; & x < -4 \\ kx^2 - 80 & ; & x \geq -4 \end{bmatrix} \right) \\ No03 &= \left(f(x) = \begin{bmatrix} bx^2 + 5 & ; & x < -2 \\ 3x + a & ; & -2 \leq x \leq 3 \\ 3x^2 - 4x + 13 & ; & x > 3 \end{bmatrix} \right), \quad No04 = \left(f(x) = \begin{bmatrix} bx + 15 & ; & x < -3 \\ ax + b & ; & -3 \leq x \leq 3 \\ 4x + a & ; & x \geq 3 \end{bmatrix} \right) \end{aligned}$$

No05 = [$f(x) = (x - 1)^2 + 4$]

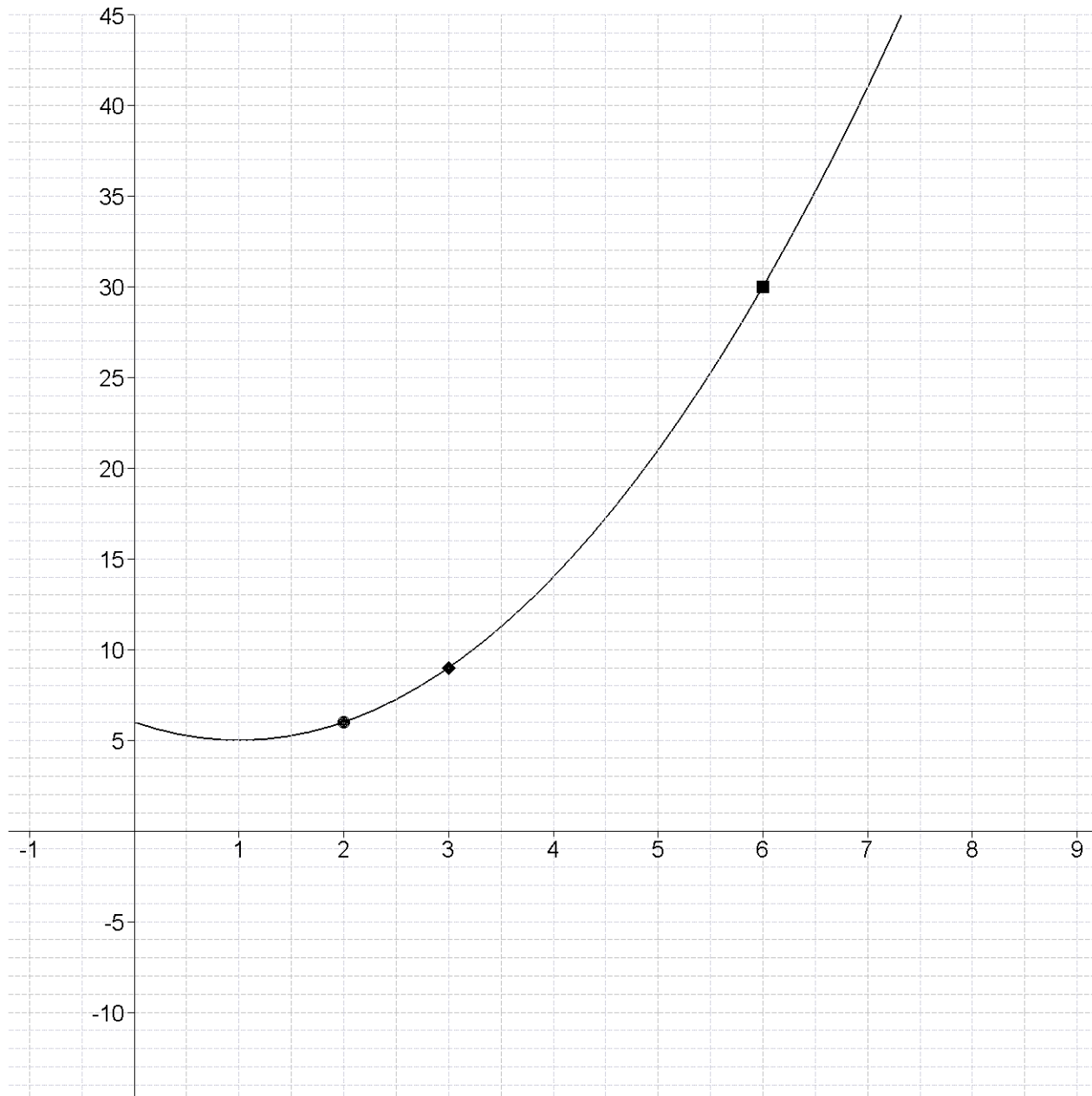
$$No06 = \begin{bmatrix} f(x) = 8x^2 + 5 \\ a = 2 \\ b = 2.2 \\ c = 2.1 \\ d = 2.01 \end{bmatrix}, \quad , No07 = \begin{bmatrix} a = 7 \\ b = 3 \end{bmatrix}, \quad , No08 = \begin{bmatrix} a = 6 \\ b = 2 \end{bmatrix}, \quad , No08 = \begin{bmatrix} a = 5 \\ b = 6 \end{bmatrix}$$

[illegible]

⋮

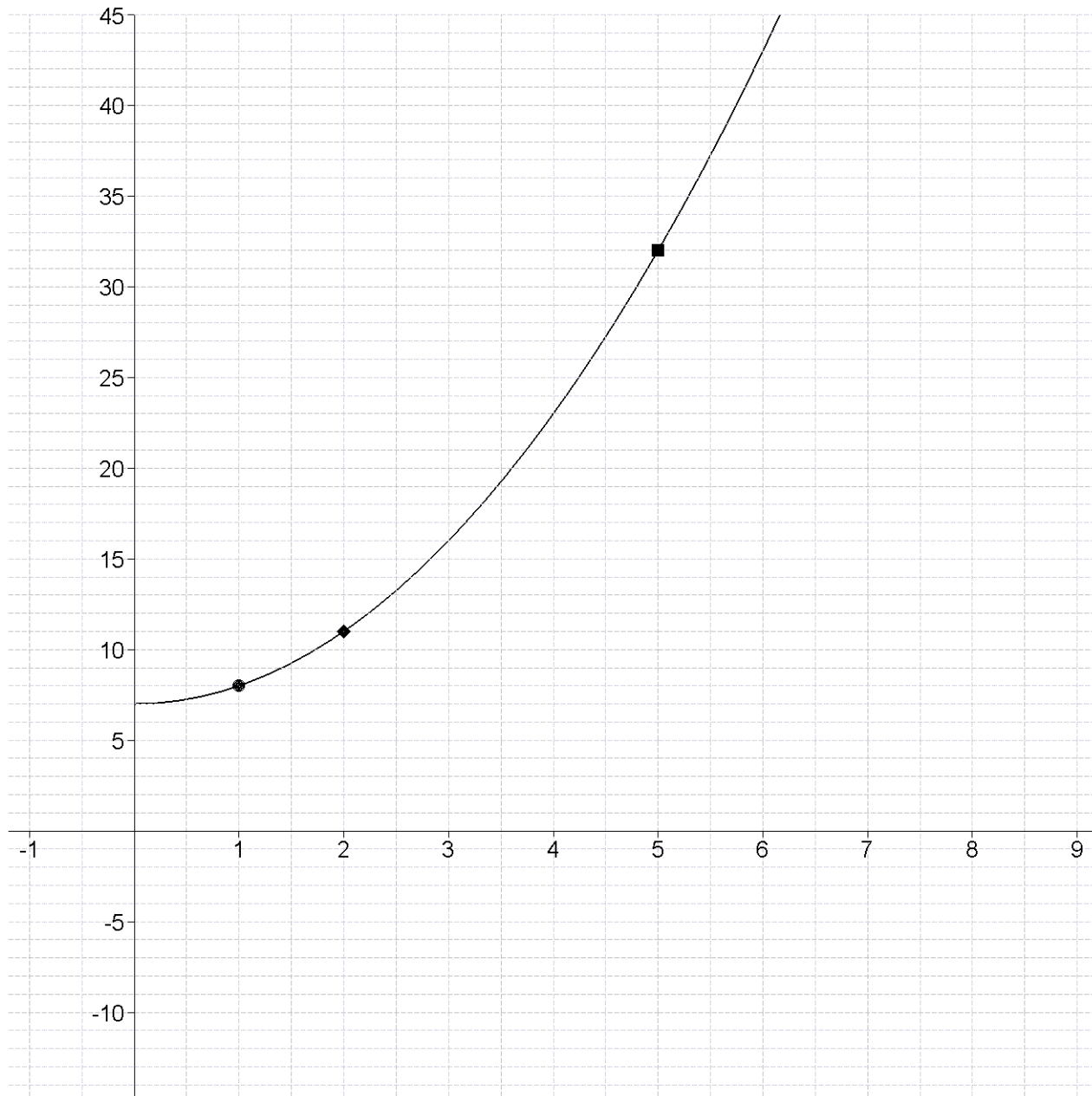
$$\begin{aligned} No01 &= \left(f(x) = \begin{bmatrix} 3x^2 + 5 & ; & x \leq 4 \\ kx + 25 & ; & x > 4 \end{bmatrix} \right), \quad No02 = \left(f(x) = \begin{bmatrix} 7x + k & ; & x < -2 \\ kx^2 - 23 & ; & x \geq -2 \end{bmatrix} \right) \\ No03 &= \left(f(x) = \begin{bmatrix} 6x + a & ; & x \leq -2 \\ bx^2 + 4x - 7 & ; & -2 < x \leq 3 \\ 3x^2 - 13 & ; & x > 3 \end{bmatrix} \right), \quad No04 = \left(f(x) = \begin{bmatrix} bx + 10 & ; & x \leq -2 \\ ax + b & ; & -2 < x < 2 \\ 5x + a & ; & x \geq 2 \end{bmatrix} \right) \end{aligned}$$

$$No06 = \begin{bmatrix} f(x) = 5x^2 + 2 \\ a = 3 \\ b = 3.2 \\ c = 3.1 \\ d = 3.01 \end{bmatrix}, \quad , No07 = \begin{bmatrix} a = 6 \\ b = 2 \end{bmatrix}, \quad , No08 = \begin{bmatrix} a = 3 \\ b = 5 \end{bmatrix}, \quad , No08 = \begin{bmatrix} a = 5 \\ b = 2 \end{bmatrix}$$



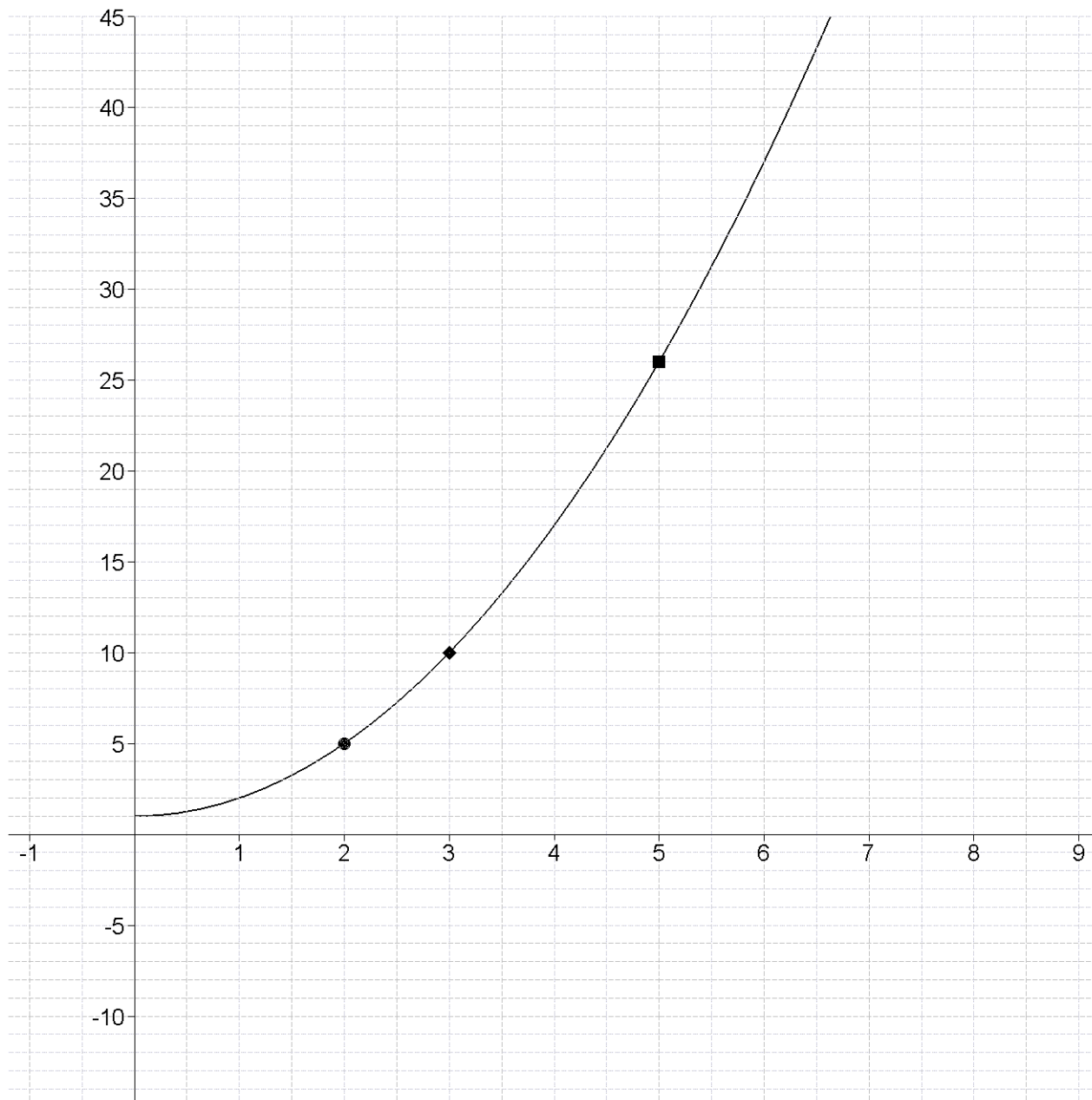
$$\begin{aligned} No01 &= \left(f(x) = \begin{bmatrix} 5x+k & ; & x < 3 \\ 4x^2+5 & ; & x \geq 3 \end{bmatrix} \right), & No02 &= \left(f(x) = \begin{bmatrix} kx+31 & ; & x \leq -2 \\ 4x^2+k & ; & x > -2 \end{bmatrix} \right) \\ No03 &= \left(f(x) = \begin{bmatrix} 2x^2+a & ; & x < -3 \\ 27+bx & ; & -3 \leq x < 2 \\ x^2+4x+19 & ; & x \geq 2 \end{bmatrix} \right), & No04 &= \left(f(x) = \begin{bmatrix} bx+14 & ; & x < -2 \\ ax+b & ; & -2 \leq x \leq 3 \\ 6x+a & ; & x > 3 \end{bmatrix} \right) \end{aligned}$$

$$No06 = \begin{bmatrix} f(x) = 4x^2 + 5 \\ a = 2 \\ b = 2.2 \\ c = 2.1 \\ d = 2.01 \end{bmatrix}, \quad , No07 = \begin{bmatrix} a = 6 \\ b = 8 \end{bmatrix}, \quad , No08 = \begin{bmatrix} a = 4 \\ b = 3 \end{bmatrix}, \quad , No08 = \begin{bmatrix} a = 6 \\ b = 4 \end{bmatrix}$$



No05 = [$f(x) = x^2 + 1$]

$$No06 = \begin{bmatrix} f(x) = 5x^2 + 7 \\ a = 4 \\ b = 4.2 \\ c = 4.1 \\ d = 4.01 \end{bmatrix}, \quad No07 = \begin{bmatrix} a = 6 \\ b = 4 \end{bmatrix}, \quad No08 = \begin{bmatrix} a = 4 \\ b = 5 \end{bmatrix}, \quad No08 = \begin{bmatrix} a = 6 \\ b = 4 \end{bmatrix}$$



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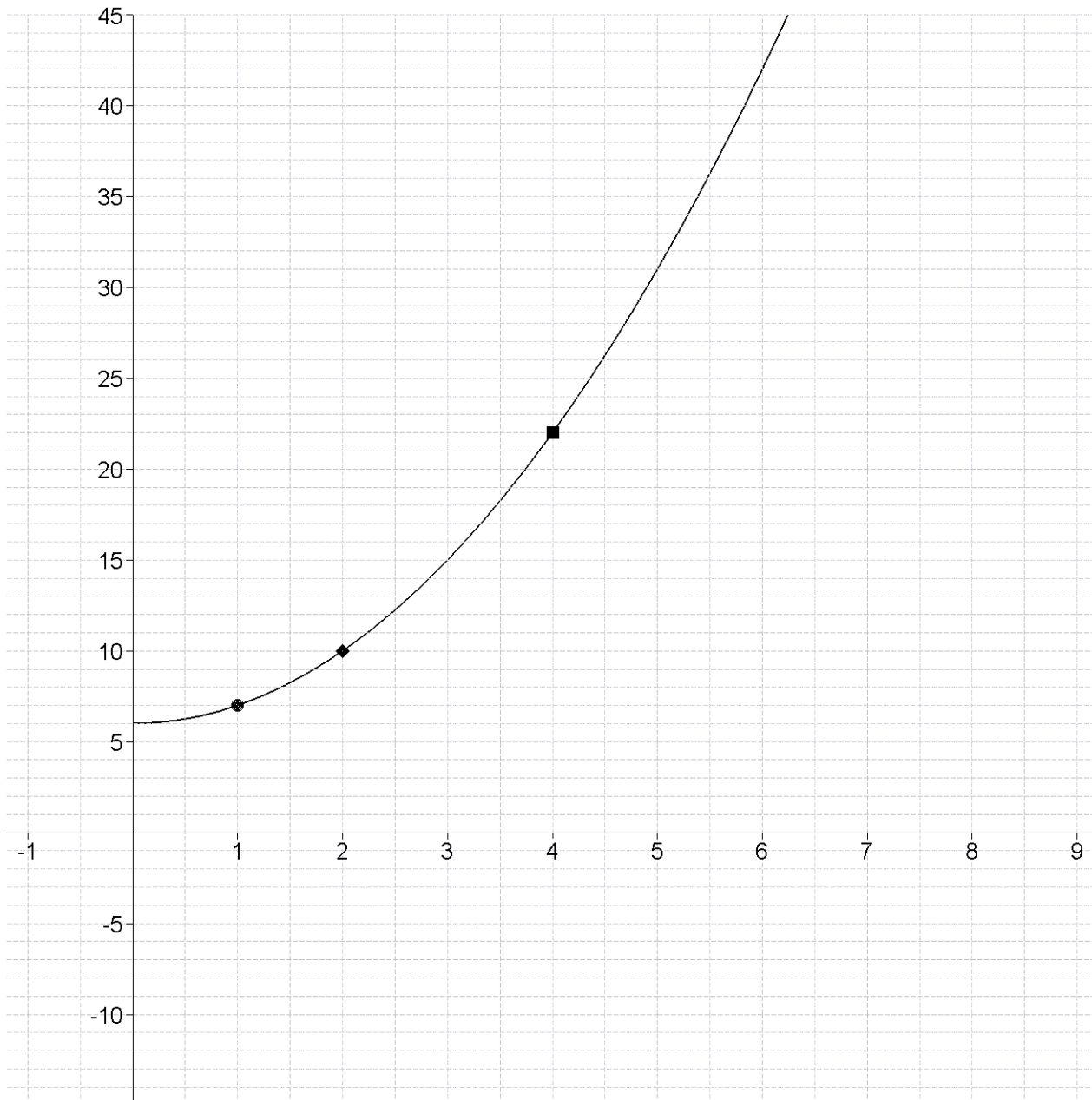
Diff01 for No.646123

$$No01 = \left(f(x) = \begin{bmatrix} 3x^2 + 6 & ; & x \leq 4 \\ kx + 46 & ; & x > 4 \end{bmatrix} \right), \quad No02 = \left(f(x) = \begin{bmatrix} kx + 31 & ; & x < -2 \\ 4x^2 + k & ; & x \geq -2 \end{bmatrix} \right)$$

$$No03 = \left(f(x) = \begin{bmatrix} 2x^2 + bx + 4 & ; & x \leq -4 \\ 2x + a & ; & -4 < x < 3 \\ x^2 + 37 & ; & x \geq 3 \end{bmatrix} \right), \quad , No04 = \left(f(x) = \begin{bmatrix} ax + 14 & ; & x \leq -3 \\ bx + a & ; & -3 < x < 2 \\ 7x + b & ; & x \geq 2 \end{bmatrix} \right)$$

No05 = [$f(x) = x^2 + 6$]

$$No06 = \begin{bmatrix} f(x) = 5x^2 - 8 \\ a = 3 \\ b = 3.2 \\ c = 3.1 \\ d = 3.01 \end{bmatrix}, \quad , No07 = \begin{bmatrix} a = 3 \\ b = 4 \end{bmatrix}, \quad , No08 = \begin{bmatrix} a = 8 \\ b = 7 \end{bmatrix}, \quad , No08 = \begin{bmatrix} a = 6 \\ b = 4 \end{bmatrix}$$



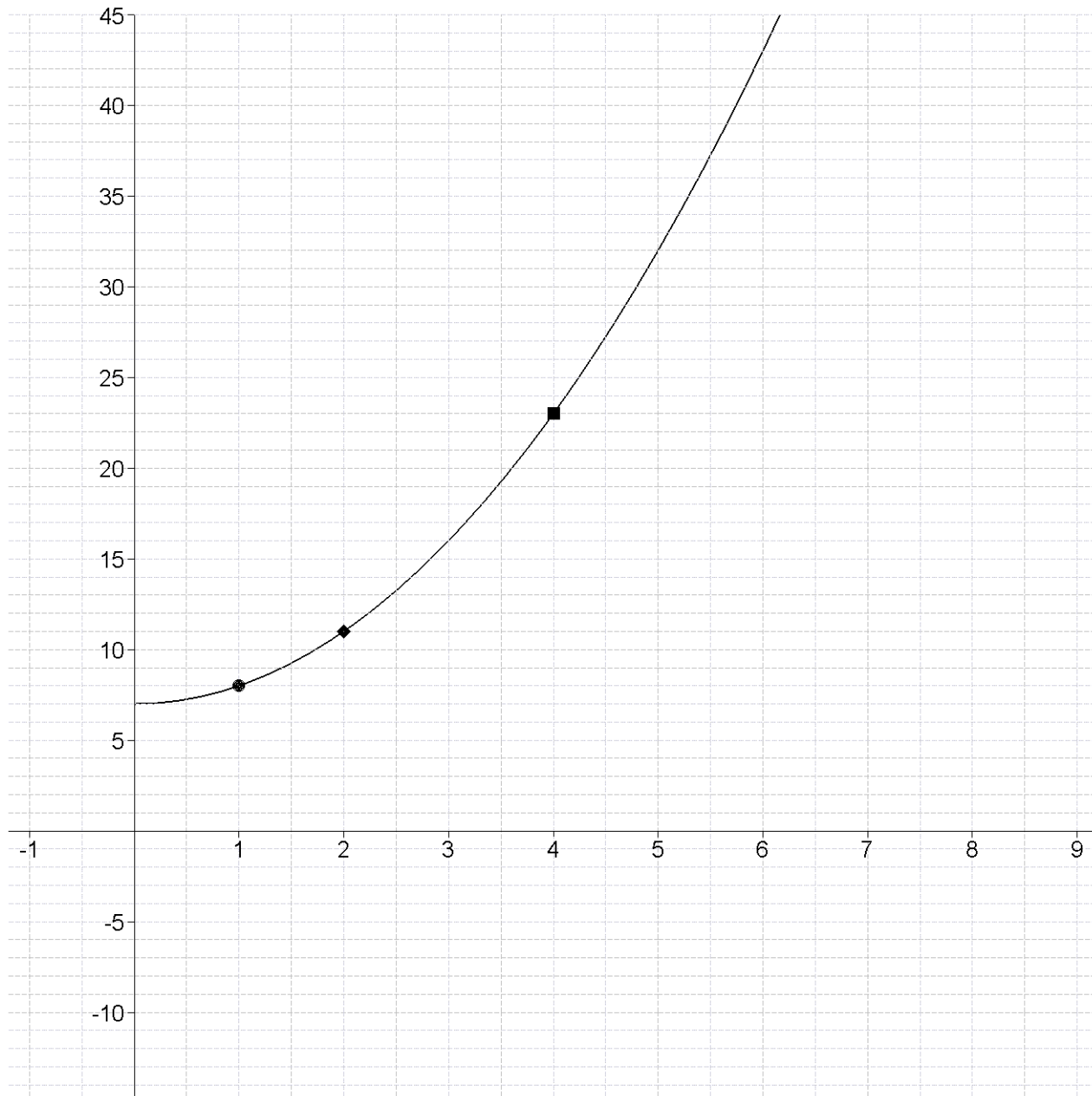
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$$No01 = \left(f(x) = \begin{bmatrix} 3x^2 + k & ; & x \leq 4 \\ 2x + 36 & ; & x > 4 \end{bmatrix} \right), \quad No02 = \left(f(x) = \begin{bmatrix} 3x^2 + k & ; & x < -4 \\ kx + 73 & ; & x \geq -4 \end{bmatrix} \right)$$

$$No03 = \left(f(x) = \begin{bmatrix} x^2 + b & ; & x < -4 \\ 29 + 4x & ; & -4 \leq x \leq 2 \\ ax^2 - 4x + 37 & ; & x > 2 \end{bmatrix} \right), \quad No04 = \left(f(x) = \begin{bmatrix} bx + 14 & ; & x \leq -3 \\ ax + b & ; & -3 < x \leq 2 \\ 7x + a & ; & x > 2 \end{bmatrix} \right)$$

No05 = [$f(x) = x^2 + 7$]

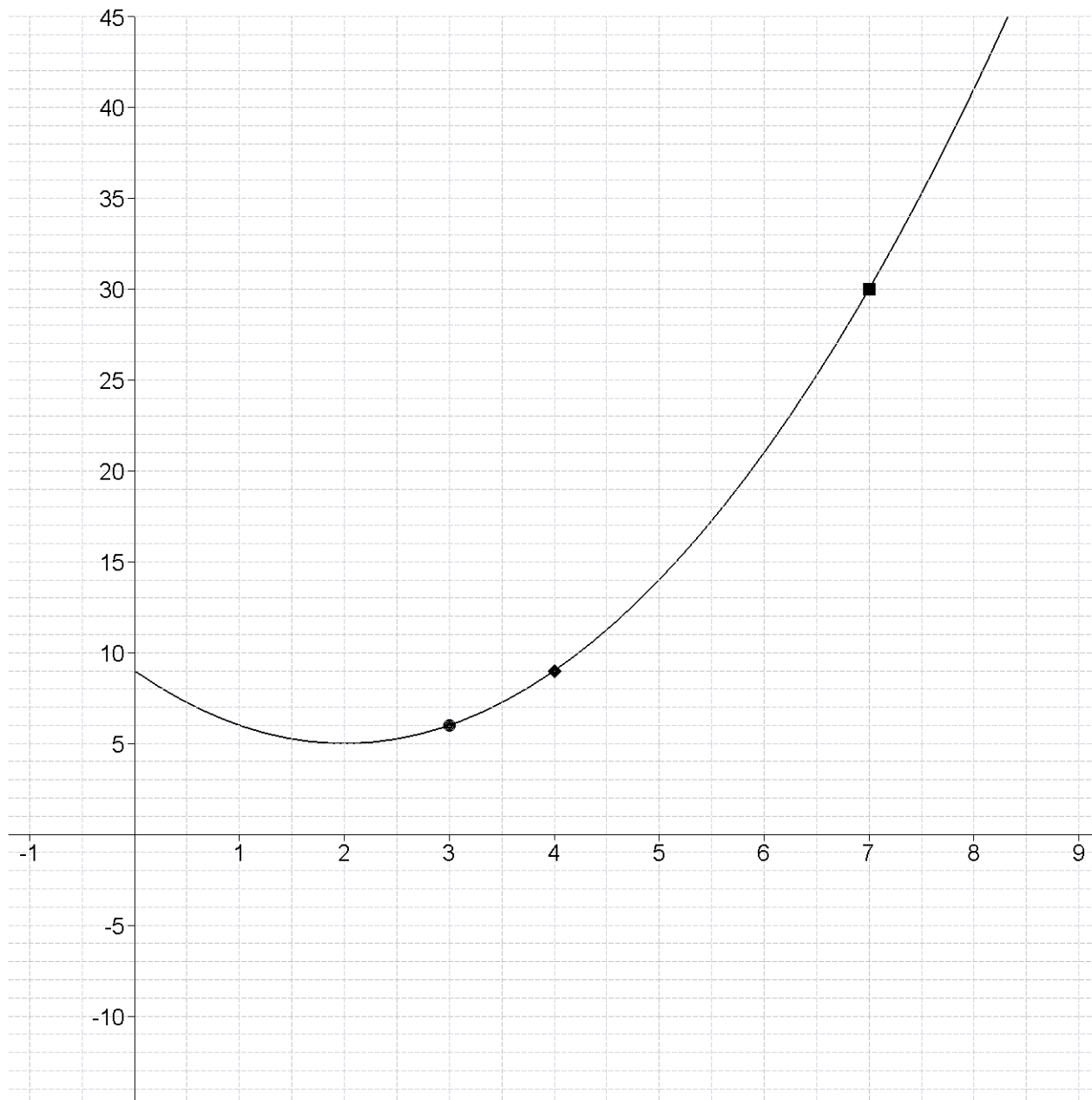
$$No06 = \begin{bmatrix} f(x) = 6x^2 - 5 \\ a = 4 \\ b = 4.2 \\ c = 4.1 \\ d = 4.01 \end{bmatrix}, \quad , No07 = \begin{bmatrix} a = 5 \\ b = 7 \end{bmatrix}, \quad , No08 = \begin{bmatrix} a = 3 \\ b = 8 \end{bmatrix}, \quad , No08 = \begin{bmatrix} a = 7 \\ b = 2 \end{bmatrix}$$



⋮

$$\begin{aligned} No01 &= \left(f(x) = \begin{bmatrix} 2x+5 & ; & x < 2 \\ 3x^2+k & ; & x \geq 2 \end{bmatrix} \right), & No02 &= \left(f(x) = \begin{bmatrix} kx+68 & ; & x < -4 \\ 3x^2+k & ; & x \geq -4 \end{bmatrix} \right) \\ No03 &= \left(f(x) = \begin{bmatrix} bx^2-3x-1 & ; & x < -4 \\ x^2+27 & ; & -4 \leq x \leq 3 \\ 27+ax & ; & x > 3 \end{bmatrix} \right), & No04 &= \left(f(x) = \begin{bmatrix} ax+10 & ; & x < -3 \\ bx+a & ; & -3 \leq x \leq 2 \\ 3x+b & ; & x > 2 \end{bmatrix} \right) \end{aligned}$$

$$No06 = \begin{bmatrix} f(x) = 2x^2 - 5 \\ a = 4 \\ b = 4.2 \\ c = 4.1 \\ d = 4.01 \end{bmatrix}, \quad , No07 = \begin{bmatrix} a = 2 \\ b = 7 \end{bmatrix}, \quad , No08 = \begin{bmatrix} a = 5 \\ b = 8 \end{bmatrix}, \quad , No08 = \begin{bmatrix} a = 5 \\ b = 3 \end{bmatrix}$$

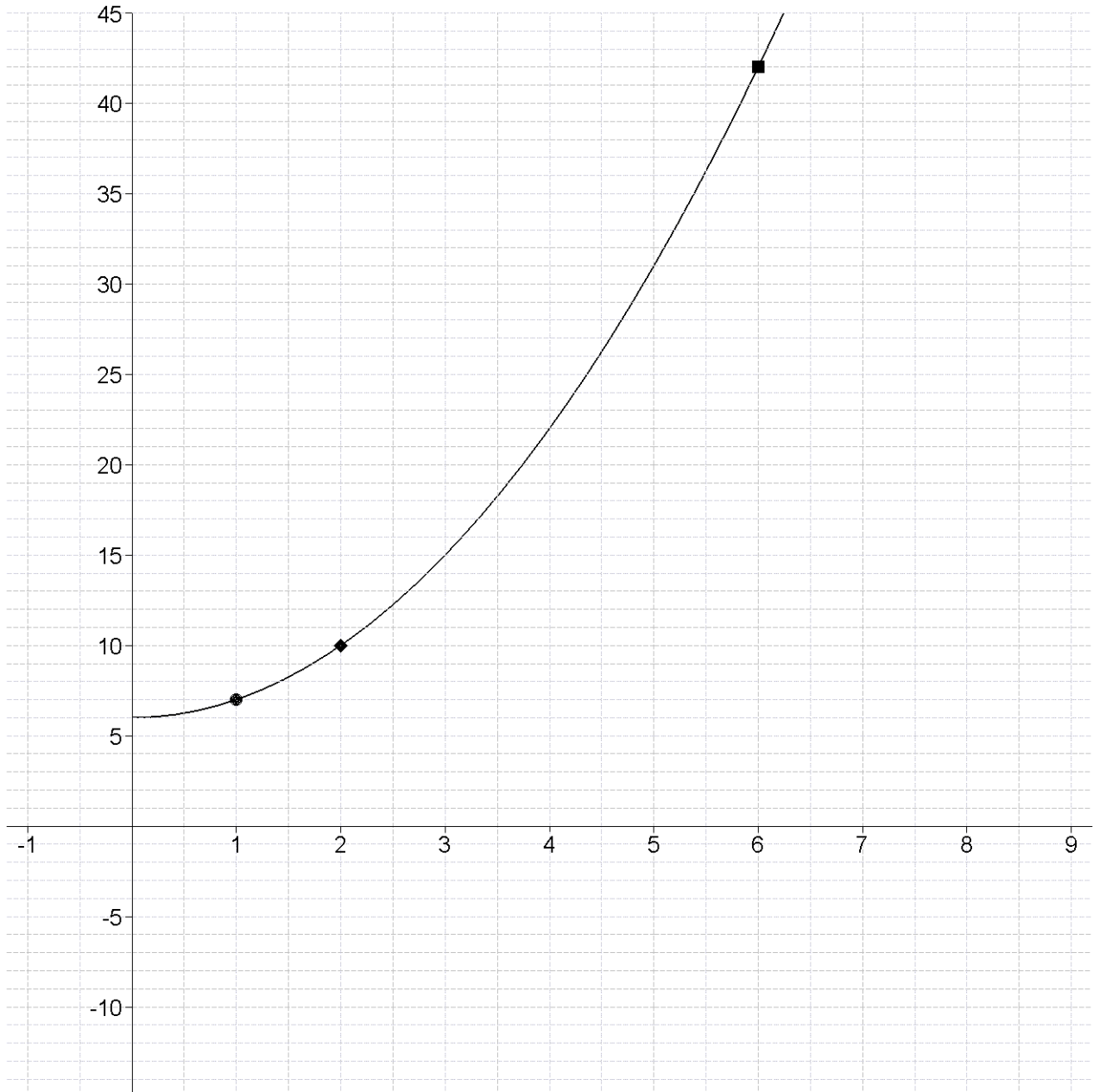


[illegible]

$$\begin{aligned} No01 &= \left(f(x) = \begin{bmatrix} 4x+k & ; & x <= 3 \\ 3x^2-2 & ; & x > 3 \end{bmatrix} \right), \quad No02 = \left(f(x) = \begin{bmatrix} 2x+k & ; & x <= -4 \\ kx^2-83 & ; & x > -4 \end{bmatrix} \right) \\ No03 &= \left(f(x) = \begin{bmatrix} x^2+b & ; & x < -3 \\ 20+5x & ; & -3 <= x < 4 \\ 3x^2+ax-4 & ; & x >= 4 \end{bmatrix} \right), \quad No04 = \left(f(x) = \begin{bmatrix} bx+16 & ; & x < -3 \\ ax+b & ; & -3 <= x < 3 \\ 5x+a & ; & x >= 3 \end{bmatrix} \right) \end{aligned}$$

$No05 = [f(x) = x^2 + 6]$

$$No06 = \begin{bmatrix} f(x) = 7x^2 + 8 \\ a = 2 \\ b = 2.2 \\ c = 2.1 \\ d = 2.01 \end{bmatrix}, \quad No07 = \begin{bmatrix} a = 8 \\ b = 3 \end{bmatrix}, \quad No08 = \begin{bmatrix} a = 7 \\ b = 6 \end{bmatrix}, \quad No08 = \begin{bmatrix} a = 2 \\ b = 3 \end{bmatrix}$$

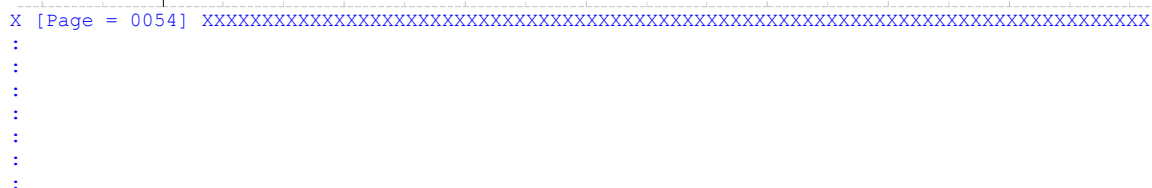
[illegible]

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$$\begin{aligned} No01 &= \left(f(x) = \begin{bmatrix} 2x^2 + k & ; & x < 3 \\ 5x & ; & x \geq 3 \end{bmatrix} \right), & No02 &= \left(f(x) = \begin{bmatrix} kx + 68 & ; & x \leq -4 \\ 3x^2 + k & ; & x > -4 \end{bmatrix} \right) \\ No03 &= \left(f(x) = \begin{bmatrix} 3x + 5 & ; & x \leq -4 \\ x^2 - 7x + a & ; & -4 < x < 2 \\ bx^2 - 69 & ; & x \geq 2 \end{bmatrix} \right), & No04 &= \left(f(x) = \begin{bmatrix} bx + 18 & ; & x \leq -4 \\ ax + b & ; & -4 < x < 3 \\ 4x + a & ; & x > 3 \end{bmatrix} \right) \end{aligned}$$

$$No03 = \left(f(x) = \begin{bmatrix} 3x+5 & ; & x \leq -4 \\ x^2 - 7x + a & ; & -4 < x < 2 \\ bx^2 - 69 & ; & x \geq 2 \end{bmatrix} \right), \quad , No04 = \left(f(x) = \begin{bmatrix} bx+18 & ; & x \leq -4 \\ ax+b & ; & -4 < x \leq 3 \\ 4x+a & ; & x > 3 \end{bmatrix} \right)$$

$$No06 = \begin{bmatrix} f(x) = 2x^2 - 3 \\ a = 3 \\ b = 3.2 \\ c = 3.1 \\ d = 3.01 \end{bmatrix}, \quad , No07 = \begin{bmatrix} a = 7 \\ b = 4 \end{bmatrix}, \quad , No08 = \begin{bmatrix} a = 5 \\ b = 7 \end{bmatrix}, \quad , No08 = \begin{bmatrix} a = 5 \\ b = 3 \end{bmatrix}$$



[illegible]