



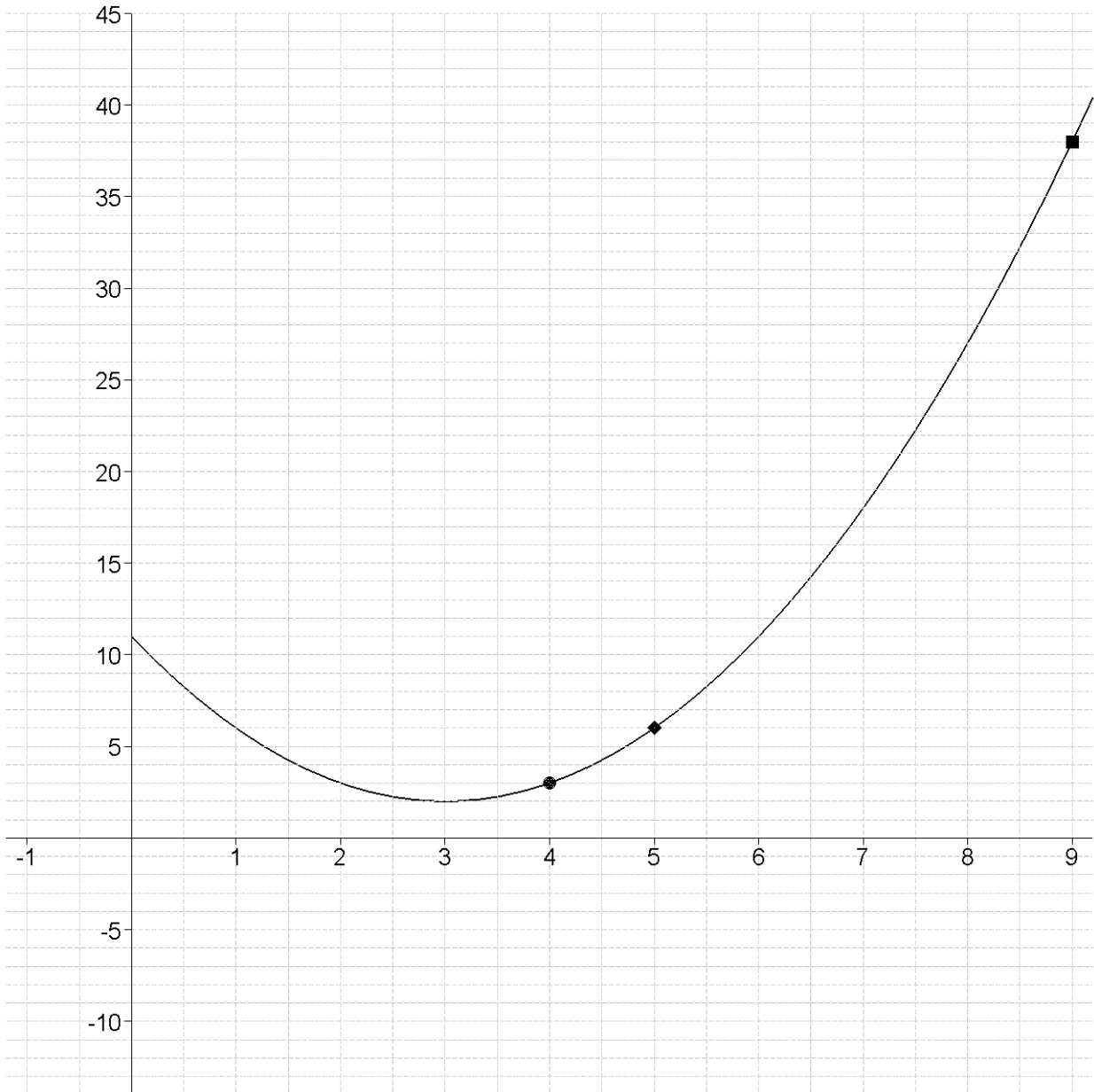


$$No01 = \left( f(x) = \begin{cases} kx - 7 & ; x \leq 2 \\ 2x^2 - 1 & ; x > 2 \end{cases} \right), \quad No02 = \left( f(x) = \begin{cases} kx + 31 & ; x \leq -2 \\ 4x^2 + k & ; x > -2 \end{cases} \right)$$

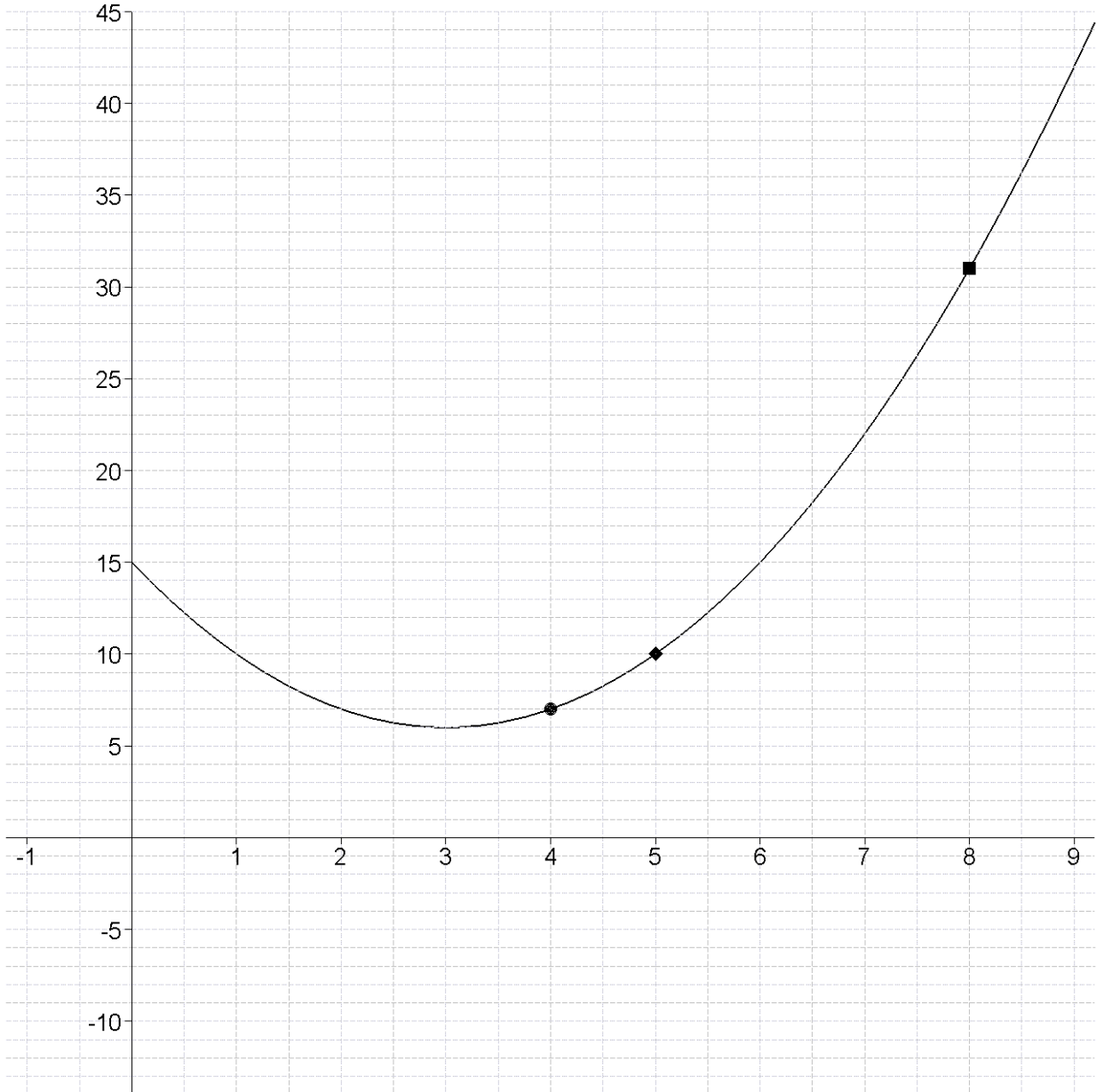
$$No03 = \left( f(x) = \begin{cases} 2x^2 - 1 & ; x \leq -2 \\ 3x^2 + 7x + a & ; -2 < x \leq 3 \\ 48 + bx & ; x > 3 \end{cases} \right), \quad No04 = \left( f(x) = \begin{cases} ax + 11 & ; x \leq -2 \\ bx + a & ; -2 < x < 2 \\ 6x + b & ; x \geq 2 \end{cases} \right)$$

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

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



$$\begin{aligned}
 \text{No01} &= \left( f(x) = \begin{cases} kx^2 - 6 & ; x \leq 2 \\ 6x - 2 & ; x > 2 \end{cases} \right), \quad \text{No02} = \left( f(x) = \begin{cases} 2x^2 + k & ; x < -3 \\ kx + 34 & ; x \geq -3 \end{cases} \right) \\
 \text{No03} &= \left( f(x) = \begin{cases} -4 + bx & ; x < -2 \\ ax^2 - 28 & ; -2 \leq x \leq 3 \\ 2x^2 + 5x - 34 & ; x > 3 \end{cases} \right), \quad \text{No04} = \left( f(x) = \begin{cases} ax + 22 & ; x < -3 \\ bx + a & ; -3 \leq x < 5 \\ 3x + b & ; x \geq 5 \end{cases} \right) \\
 \text{No05} &= [f(x) = (x - 3)^2 + 6] \\
 \text{No06} &= \begin{bmatrix} f(x) = 3x^2 + 5 \\ a = 4 \\ b = 4.2 \\ c = 4.1 \\ d = 4.01 \end{bmatrix}, \quad \text{No07} = \begin{bmatrix} a = 3 \\ b = 8 \end{bmatrix}, \quad \text{No08} = \begin{bmatrix} a = 5 \\ b = 4 \end{bmatrix}, \quad \text{No09} = \begin{bmatrix} a = 3 \\ b = 2 \end{bmatrix}
 \end{aligned}$$



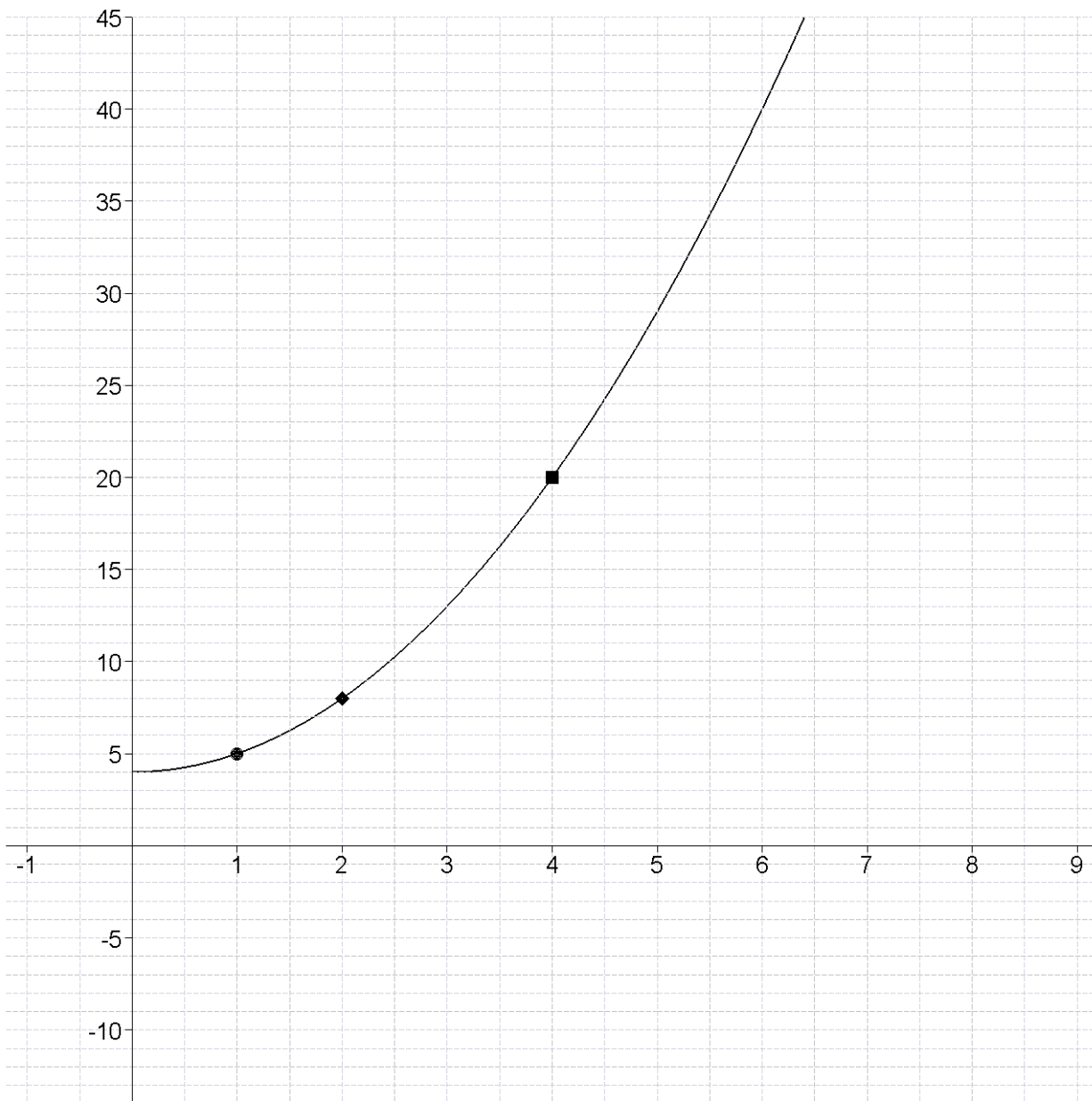
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$$No01 = \left( f(x) = \begin{cases} 7x - 6 & ; x < 2 \\ kx^2 - 4 & ; x \geq 2 \end{cases} \right), \quad No02 = \left( f(x) = \begin{cases} kx + 27 & ; x \leq -2 \\ 3x^2 + k & ; x > -2 \end{cases} \right)$$

$$No03 = \left( f(x) = \begin{cases} 7x + a & ; x < -2 \\ 2x^2 - 7x - 41 & ; -2 \leq x \leq 4 \\ bx^2 - 85 & ; x > 4 \end{cases} \right), \quad No04 = \left( f(x) = \begin{cases} bx + 20 & ; x \leq -2 \\ ax + b & ; -2 < x \leq 6 \\ 3x + a & ; x > 6 \end{cases} \right)$$

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

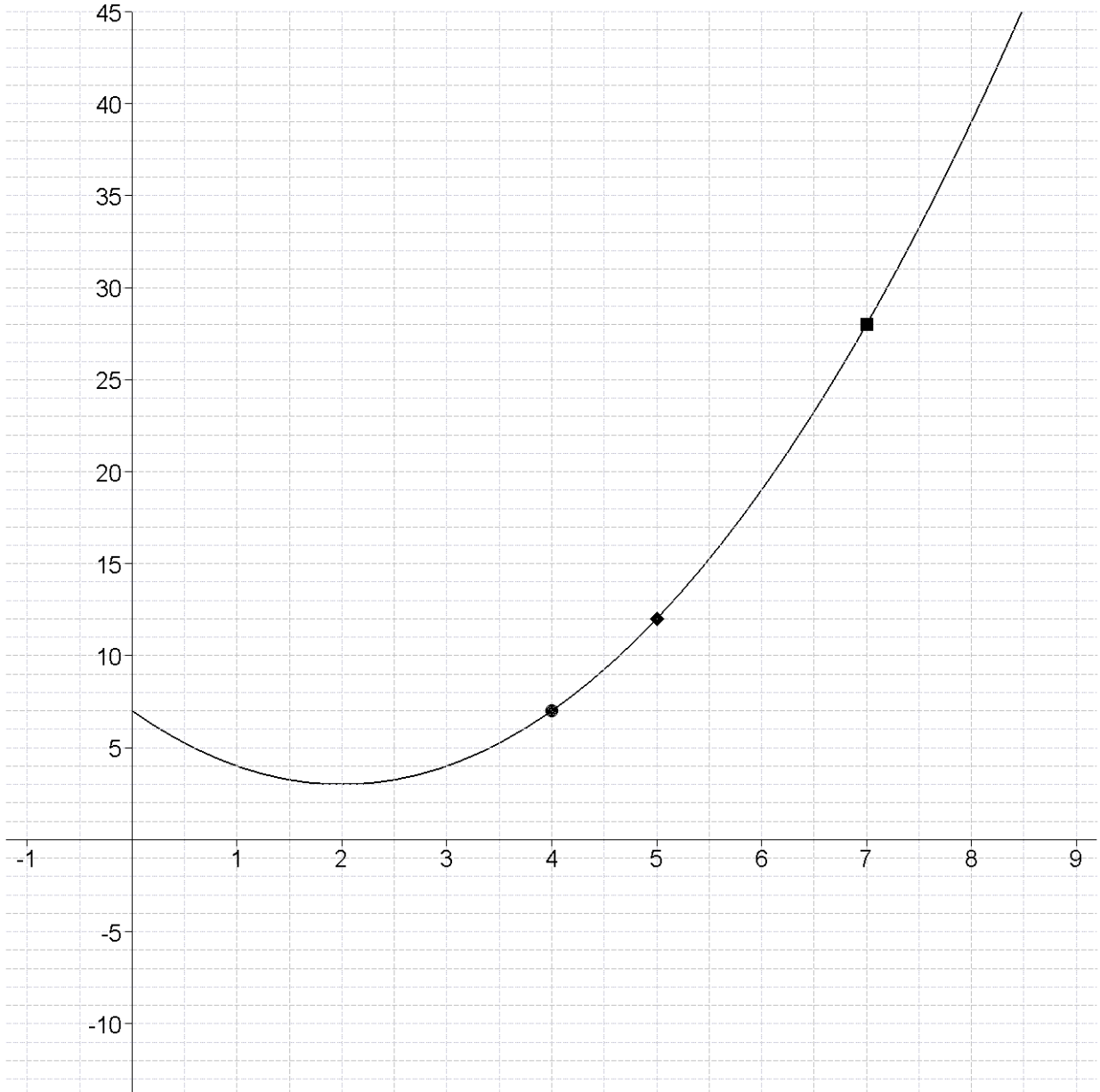
$$No06 = \begin{bmatrix} f(x) = 5x^2 - 7 \\ a = 4 \\ b = 4.2 \\ c = 4.1 \\ d = 4.01 \end{bmatrix}, \quad No07 = \begin{bmatrix} a = 8 \\ b = 2 \end{bmatrix}, \quad No08 = \begin{bmatrix} a = 8 \\ b = 6 \end{bmatrix}, \quad No08 = \begin{bmatrix} a = 4 \\ b = 3 \end{bmatrix}$$



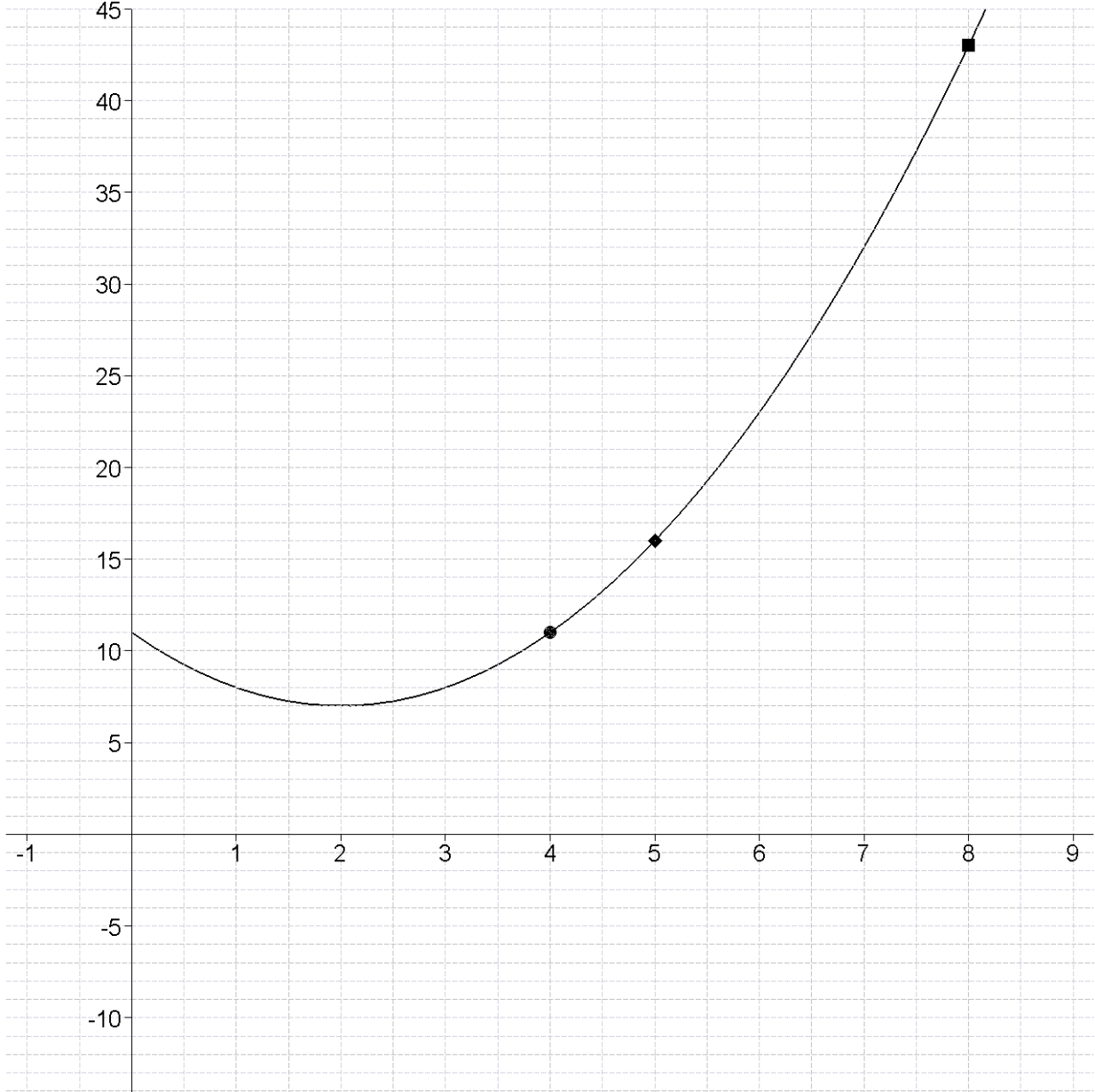
$$\begin{aligned}
\text{No01} &= \left( f(x) = \begin{cases} 7x+40 & ; x < 4 \\ 4x^2+k & ; x \geq 4 \end{cases} \right), \text{No02} = \left( f(x) = \begin{cases} 2x+k & ; x \leq -3 \\ kx^2-22 & ; x > -3 \end{cases} \right) \\
\text{No03} &= \left( f(x) = \begin{cases} x^2+ax+2 & ; x < -4 \\ 3x^2+b & ; -4 \leq x < 3 \\ 12+3x & ; x \geq 3 \end{cases} \right), \text{No04} = \left( f(x) = \begin{cases} bx+24 & ; x \leq -4 \\ ax+b & ; -4 < x < 4 \\ 5x+a & ; x \geq 4 \end{cases} \right)
\end{aligned}$$

$$\text{No05} = [f(x) = (x-2)^2 + 3]$$

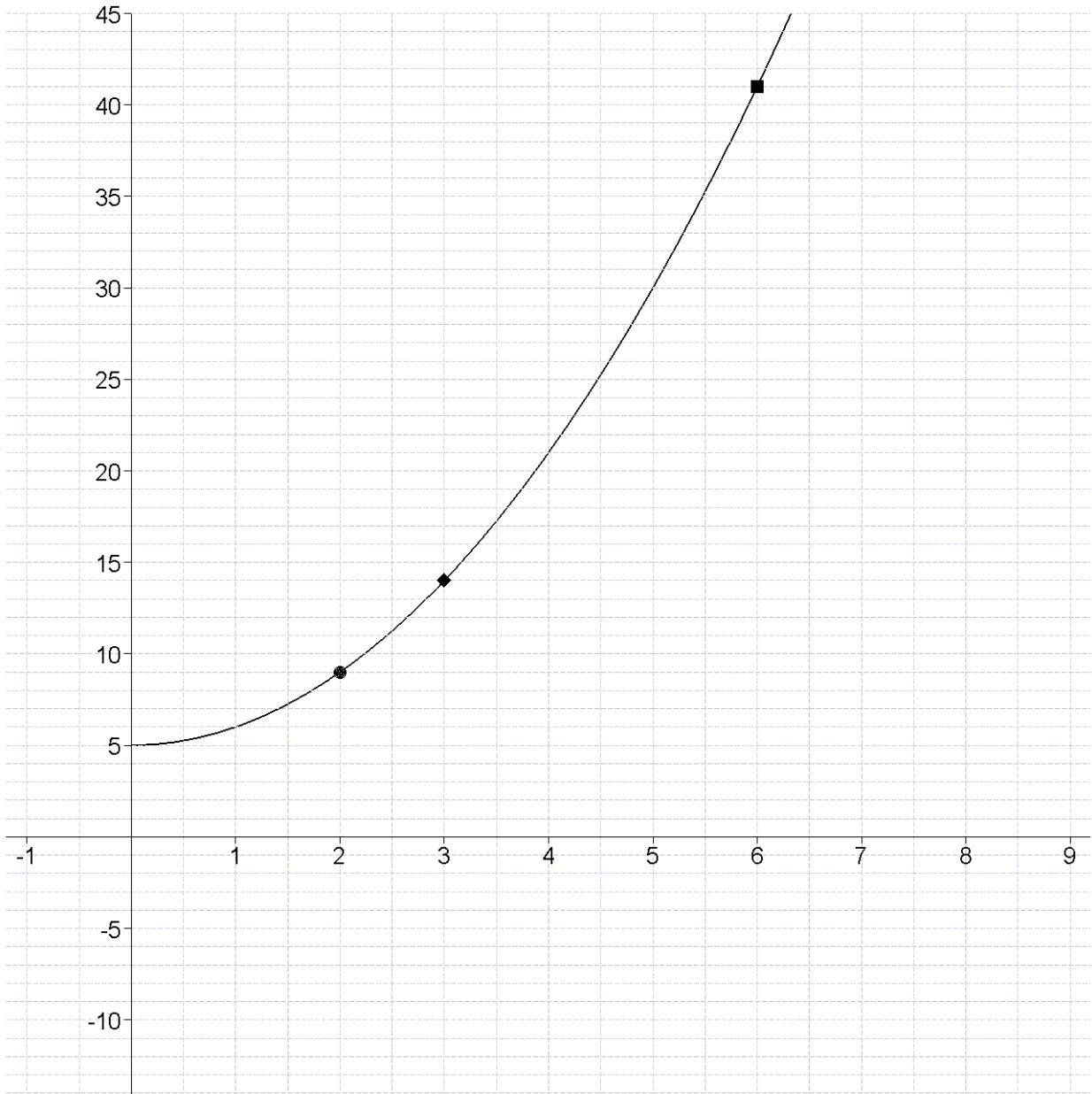
$$\text{No06} = \begin{bmatrix} f(x) = 3x^2 + 8 \\ a = 2 \\ b = 2.2 \\ c = 2.1 \\ d = 2.01 \end{bmatrix}, \text{No07} = \begin{bmatrix} a = 8 \\ b = 7 \end{bmatrix}, \text{No08} = \begin{bmatrix} a = 4 \\ b = 5 \end{bmatrix}, \text{No08} = \begin{bmatrix} a = 2 \\ b = 8 \end{bmatrix}$$



$$\begin{aligned} \text{No01} &= \left( f(x) = \begin{cases} 3x^2 - 3 & ; x < 2 \\ kx - 7 & ; x \geq 2 \end{cases} \right), \quad \text{No02} = \left( f(x) = \begin{cases} 3x^2 + k & ; x < -2 \\ kx + 24 & ; x \geq -2 \end{cases} \right) \\ \text{No03} &= \left( f(x) = \begin{cases} 2x^2 - 3x + a & ; x < -3 \\ bx^2 + 16 & ; -3 \leq x < 4 \\ 4 + 7x & ; x \geq 4 \end{cases} \right), \quad \text{No04} = \left( f(x) = \begin{cases} ax + 10 & ; x \leq -3 \\ bx + a & ; -3 < x < 2 \\ 3x + b & ; x \geq 2 \end{cases} \right) \\ \text{No05} &= [f(x) = (x - 2)^2 + 7] \\ \text{No06} &= \begin{bmatrix} f(x) = 3x^2 - 8 \\ a = 4 \\ b = 4.2 \\ c = 4.1 \\ d = 4.01 \end{bmatrix}, \quad \text{No07} = \begin{bmatrix} a = 6 \\ b = 7 \end{bmatrix}, \quad \text{No08} = \begin{bmatrix} a = 4 \\ b = 3 \end{bmatrix}, \quad \text{No09} = \begin{bmatrix} a = 7 \\ b = 3 \end{bmatrix} \end{aligned}$$



$$\begin{aligned}
 \text{No01} &= \left( f(x) = \begin{bmatrix} kx^2 - 4 & ; & x \leq 4 \\ 3x + 16 & ; & x > 4 \end{bmatrix} \right), \quad \text{No02} = \left( f(x) = \begin{bmatrix} kx + 48 & ; & x < -3 \\ 4x^2 + k & ; & x \geq -3 \end{bmatrix} \right) \\
 \text{No03} &= \left( f(x) = \begin{bmatrix} 2x^2 + b & ; & x < -3 \\ 38 + 5x & ; & -3 \leq x \leq 4 \\ ax^2 - 4x + 58 & ; & x > 4 \end{bmatrix} \right), \quad \text{No04} = \left( f(x) = \begin{bmatrix} ax + 20 & ; & x < -2 \\ bx + a & ; & -2 \leq x < 6 \\ 3x + b & ; & x \geq 6 \end{bmatrix} \right) \\
 \text{No05} &= [f(x) = x^2 + 5] \\
 \text{No06} &= \begin{bmatrix} f(x) = 5x^2 - 2 \\ a = 4 \\ b = 4.2 \\ c = 4.1 \\ d = 4.01 \end{bmatrix}, \quad \text{No07} = \begin{bmatrix} a = 6 \\ b = 4 \end{bmatrix}, \quad \text{No08} = \begin{bmatrix} a = 7 \\ b = 5 \end{bmatrix}, \quad \text{No08} = \begin{bmatrix} a = 5 \\ b = 4 \end{bmatrix}
 \end{aligned}$$



























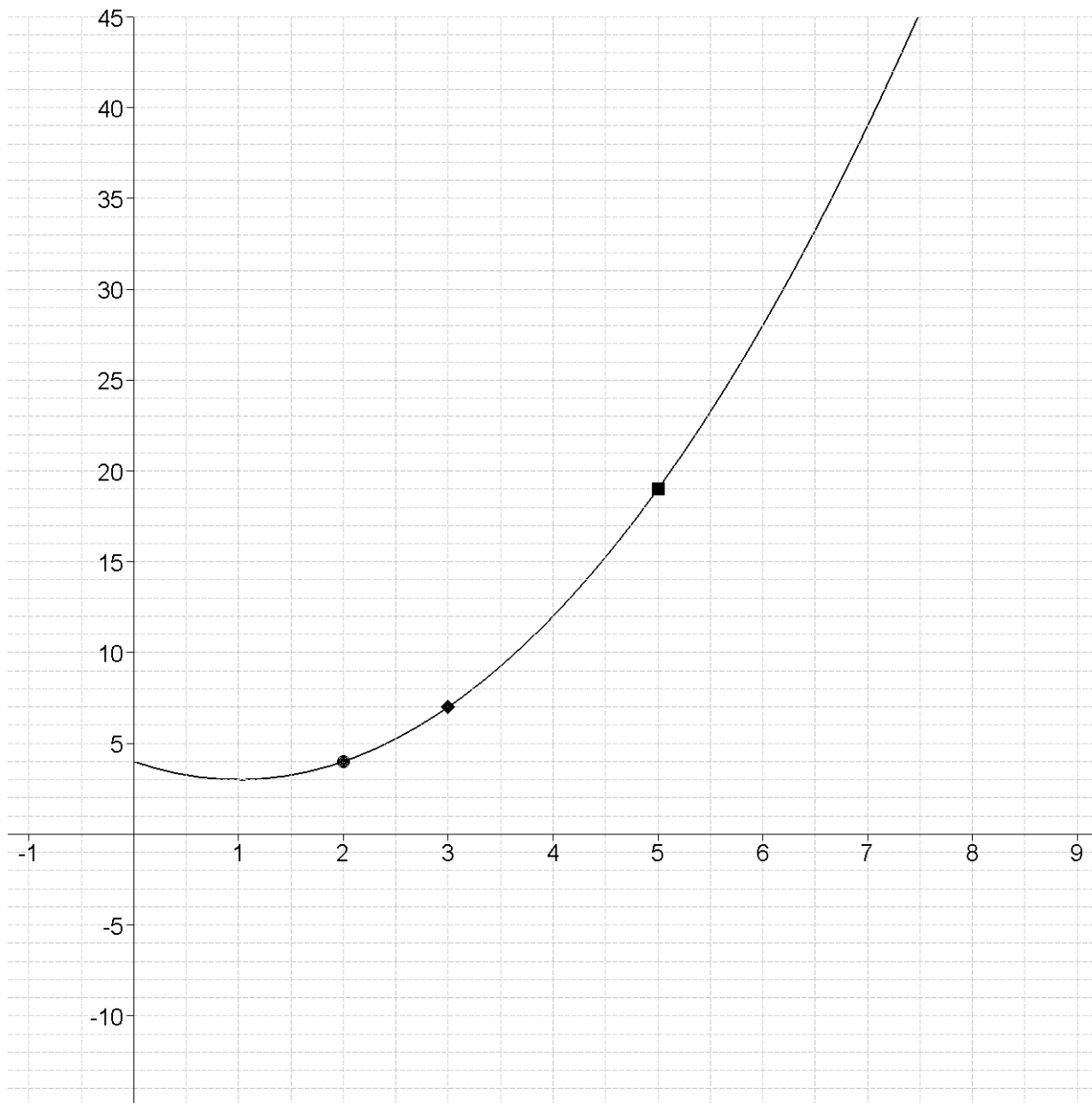


$$No01 = \left( f(x) = \begin{cases} kx - 9 & ; \quad x < 2 \\ 3x^2 - 5 & ; \quad x \geq 2 \end{cases} \right), \quad No02 = \left( f(x) = \begin{cases} 2x^2 + k & ; \quad x < -2 \\ kx + 26 & ; \quad x \geq -2 \end{cases} \right)$$

$$No03 = \left( f(x) = \begin{cases} 3 + bx & ; \quad x \leq -2 \\ x^2 + a & ; \quad -2 < x < 4 \\ 3x^2 + 7x - 65 & ; \quad x \geq 4 \end{cases} \right), \quad No04 = \left( f(x) = \begin{cases} bx + 23 & ; \quad x \leq -4 \\ ax + b & ; \quad -4 < x < 4 \\ 4x + a & ; \quad x \geq 4 \end{cases} \right)$$

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

$$No06 = \begin{bmatrix} f(x) = 4x^2 + 3 \\ a = 2 \\ b = 2.2 \\ c = 2.1 \\ d = 2.01 \end{bmatrix}, \quad No07 = \begin{bmatrix} a = 8 \\ b = 2 \end{bmatrix}, \quad No08 = \begin{bmatrix} a = 7 \\ b = 3 \end{bmatrix}, \quad No08 = \begin{bmatrix} a = 3 \\ b = 6 \end{bmatrix}$$



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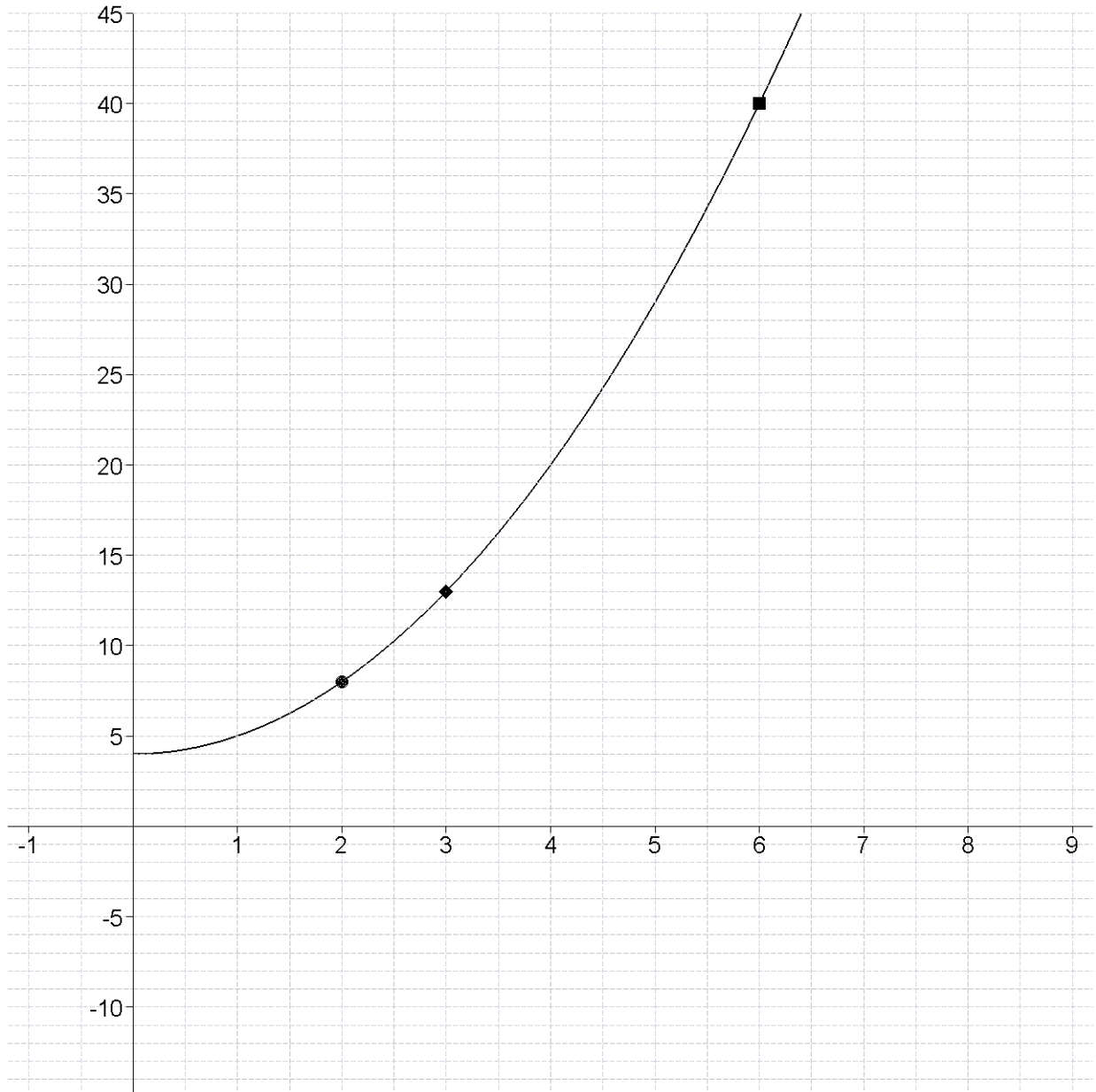


$$No01 = \left( f(x) = \begin{bmatrix} 7x+8 & ; & x < 4 \\ 2x^2+k & ; & x \geq 4 \end{bmatrix} \right), \quad , No02 = \left( f(x) = \begin{bmatrix} 7x+k & ; & x < -4 \\ kx^2-118 & ; & x \geq -4 \end{bmatrix} \right)$$

$$No03 = \left( f(x) = \begin{bmatrix} 3x^2+b & ; & x \leq -2 \\ 13+3x & ; & -2 < x < 4 \\ ax^2-3x+5 & ; & x \geq 4 \end{bmatrix} \right), \quad , No04 = \left( f(x) = \begin{bmatrix} bx+16 & ; & x \leq -4 \\ ax+b & ; & -4 < x \leq 2 \\ 7x+a & ; & x > 2 \end{bmatrix} \right)$$

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

$$No06 = \begin{bmatrix} f(x) = 5x^2 - 3 \\ a = 2 \\ b = 2.2 \\ c = 2.1 \\ d = 2.01 \end{bmatrix}, \quad , No07 = \begin{bmatrix} a = 8 \\ b = 7 \end{bmatrix}, \quad , No08 = \begin{bmatrix} a = 2 \\ b = 6 \end{bmatrix}, \quad , No09 = \begin{bmatrix} a = 3 \\ b = 2 \end{bmatrix}$$







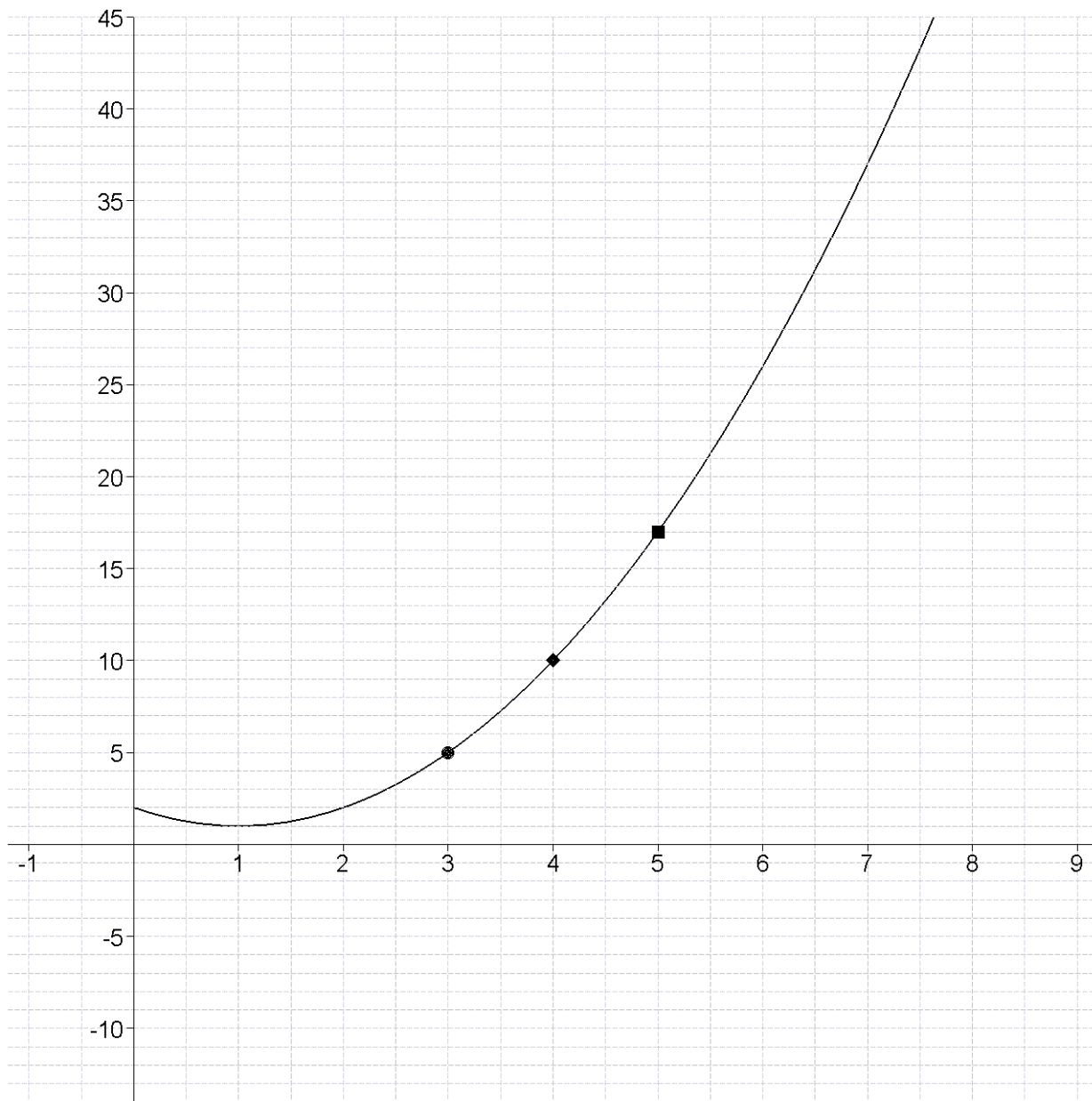


$$No01 = \left( f(x) = \begin{cases} 7x + 13 & ; \quad x < 3 \\ kx^2 + 7 & ; \quad x \geq 3 \end{cases} \right), \quad No02 = \left( f(x) = \begin{cases} 3x^2 + k & ; \quad x \leq -3 \\ kx + 51 & ; \quad x > -3 \end{cases} \right)$$

$$No03 = \left( f(x) = \begin{cases} 2x^2 - 1 & ; \quad x < -3 \\ bx^2 - 5x - 7 & ; \quad -3 \leq x < 4 \\ -39 + ax & ; \quad x \geq 4 \end{cases} \right), \quad No04 = \left( f(x) = \begin{cases} bx + 13 & ; \quad x < -4 \\ ax + b & ; \quad -4 \leq x \leq 2 \\ 4x + a & ; \quad x > 2 \end{cases} \right)$$

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

$$No06 = \begin{bmatrix} f(x) = 7x^2 - 8 \\ a = 3 \\ b = 3.2 \\ c = 3.1 \\ d = 3.01 \end{bmatrix}, \quad No07 = \begin{bmatrix} a = 7 \\ b = 5 \end{bmatrix}, \quad No08 = \begin{bmatrix} a = 7 \\ b = 6 \end{bmatrix}, \quad No09 = \begin{bmatrix} a = 3 \\ b = 4 \end{bmatrix}$$

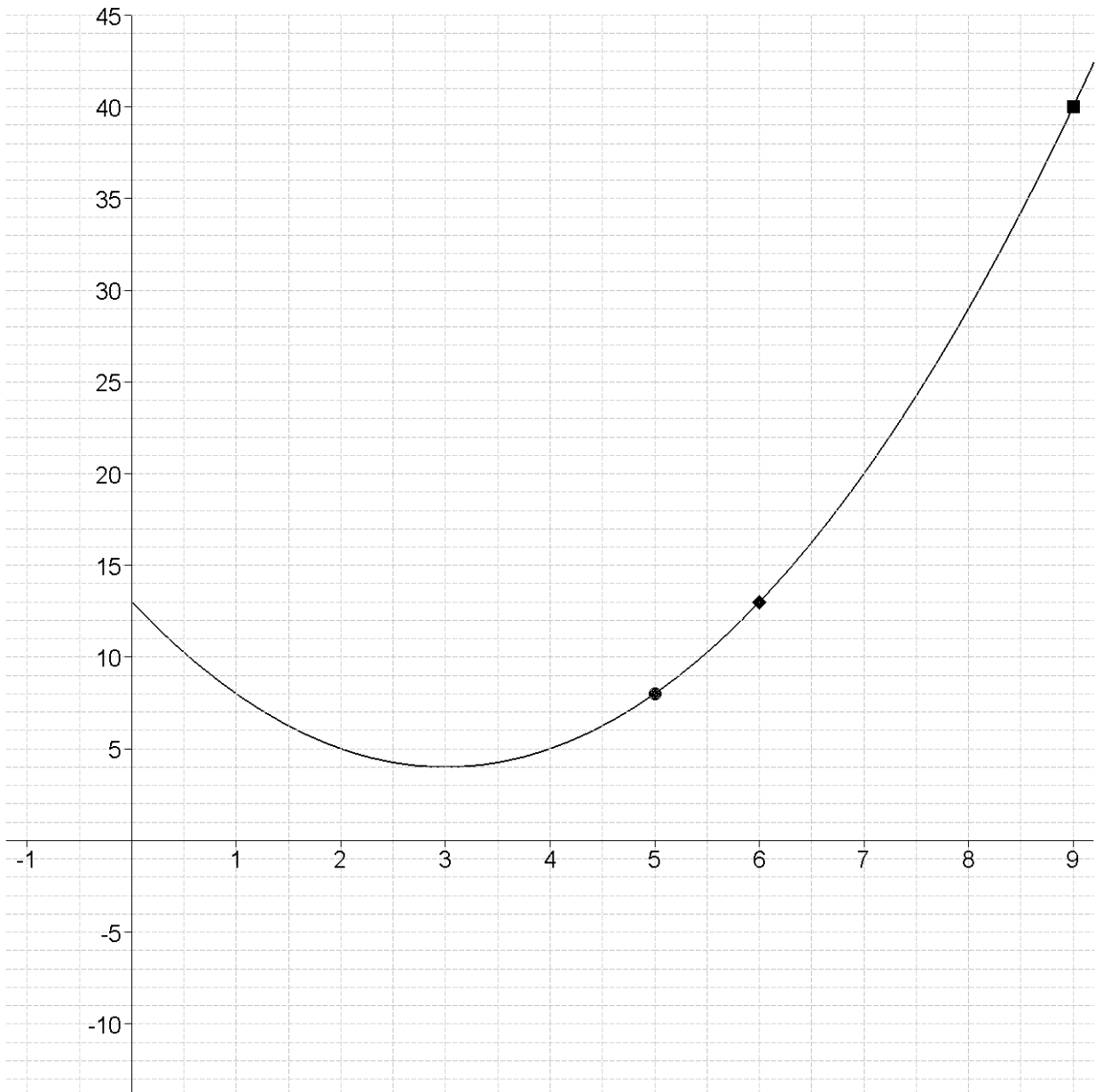








$$\begin{aligned}
 \text{No01} &= \left( f(x) = \begin{cases} 3x+23 & ; x < 3 \\ kx^2-4 & ; x \geq 3 \end{cases} \right), \quad \text{No02} = \left( f(x) = \begin{cases} 5x+k & ; x < -4 \\ kx^2-110 & ; x \geq -4 \end{cases} \right) \\
 \text{No03} &= \left( f(x) = \begin{cases} x^2+b & ; x < -2 \\ 2x^2+4x+1 & ; -2 \leq x \leq 3 \\ 13+ax & ; x > 3 \end{cases} \right), \quad \text{No04} = \left( f(x) = \begin{cases} bx+23 & ; x \leq -4 \\ ax+b & ; -4 < x \leq 4 \\ 4x+a & ; x > 4 \end{cases} \right) \\
 \text{No05} &= [f(x) = (x-3)^2 + 4] \\
 \text{No06} &= \begin{bmatrix} f(x) = 7x^2 + 3 \\ a = 2 \\ b = 2.2 \\ c = 2.1 \\ d = 2.01 \end{bmatrix}, \quad \text{No07} = \begin{bmatrix} a = 5 \\ b = 8 \end{bmatrix}, \quad \text{No08} = \begin{bmatrix} a = 6 \\ b = 4 \end{bmatrix}, \quad \text{No08} = \begin{bmatrix} a = 2 \\ b = 8 \end{bmatrix}
 \end{aligned}$$







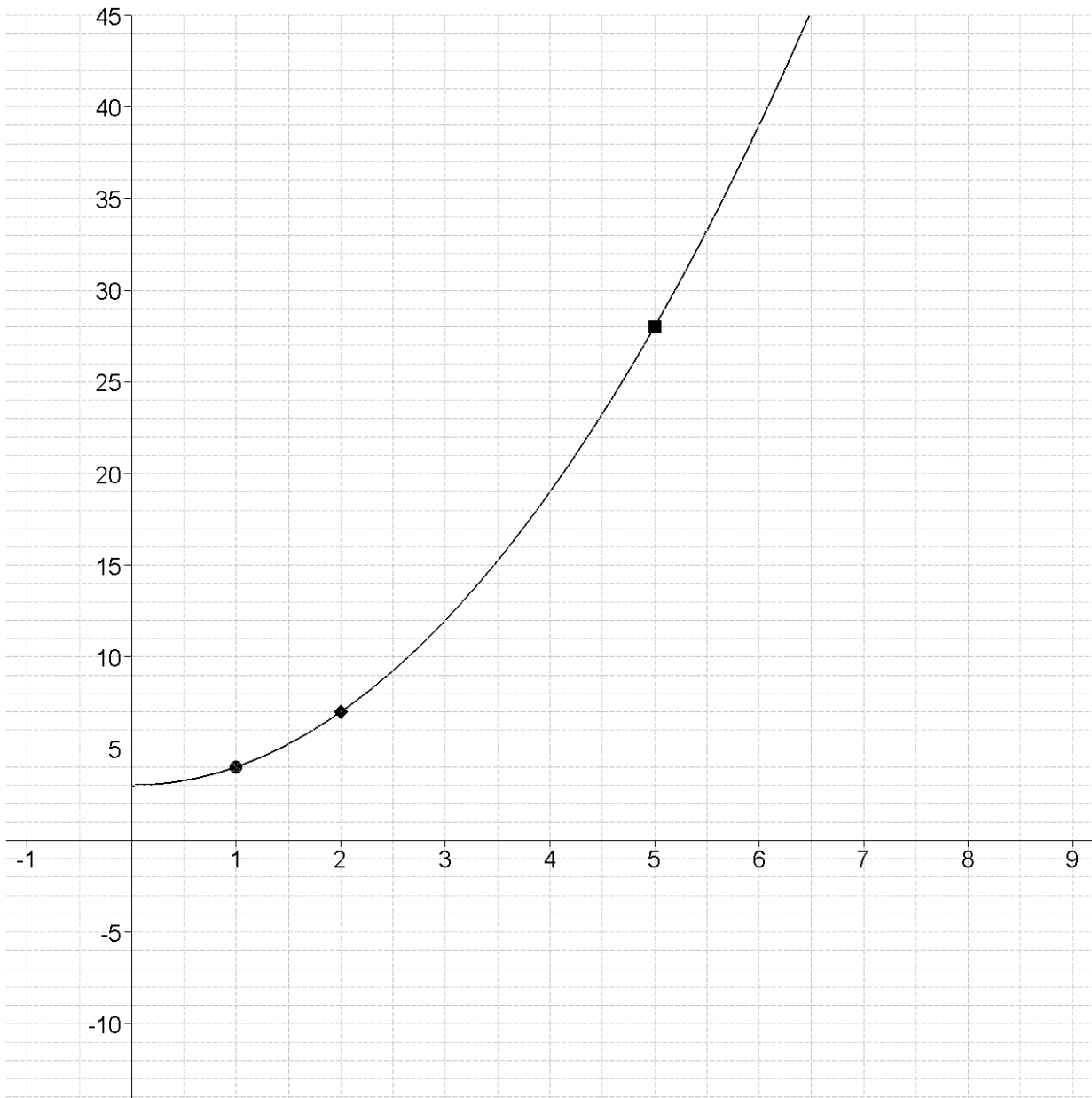


$$No01 = \left( f(x) = \begin{cases} 5x + 18 & ; x < 4 \\ 2x^2 + k & ; x \geq 4 \end{cases} \right), \quad No02 = \left( f(x) = \begin{cases} kx + 63 & ; x \leq -4 \\ 3x^2 + k & ; x > -4 \end{cases} \right)$$

$$No03 = \left( f(x) = \begin{cases} ax^2 - 1 & ; x < -3 \\ 44 + bx & ; -3 \leq x < 4 \\ 2x^2 - 4x + 52 & ; x \geq 4 \end{cases} \right), \quad No04 = \left( f(x) = \begin{cases} ax + 14 & ; x \leq -2 \\ bx + a & ; -2 < x \leq 4 \\ 3x + b & ; x > 4 \end{cases} \right)$$

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

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



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$$\begin{aligned} \text{No01} &= \left( f(x) = \begin{cases} kx^2 + 5 & ; x \leq 4 \\ 6x + 45 & ; x > 4 \end{cases} \right), & \text{No02} &= \left( f(x) = \begin{cases} 5x + k & ; x \leq -3 \\ kx^2 - 63 & ; x > -3 \end{cases} \right) \\ \text{No03} &= \left( f(x) = \begin{cases} 4x + b & ; x \leq -3 \\ 2x^2 + ax - 14 & ; -3 < x < 4 \\ x^2 + 30 & ; x \geq 4 \end{cases} \right), & \text{No04} &= \left( f(x) = \begin{cases} bx + 8 & ; x \leq -2 \\ ax + b & ; -2 < x < 2 \\ 3x + a & ; x \geq 2 \end{cases} \right) \\ \text{No05} &= [f(x) = (x - 3)^2 + 4] \\ \text{No06} &= \begin{bmatrix} f(x) = 7x^2 + 3 \\ a = 2 \\ b = 2.2 \\ c = 2.1 \\ d = 2.01 \end{bmatrix}, & \text{No07} &= \begin{bmatrix} a = 6 \\ b = 4 \end{bmatrix}, & \text{No08} &= \begin{bmatrix} a = 6 \\ b = 5 \end{bmatrix}, & \text{No09} &= \begin{bmatrix} a = 5 \\ b = 6 \end{bmatrix} \end{aligned}$$

