

Name:

Standard Form of a Quadratic Function Worksheet

Write the quadratic functions in standard form.

① $y = -(x - 1)(x - 1)$ _____

⑤ $y = -4x(x + 5)$ _____

② $y = 3(x + 3)(x + 1)$ _____

⑥ $y = (x + 2)(x - 3)$ _____

③ $y = (x + 2)(x - 2)$ _____

⑦ $y = 2(x - 1)^2 - 3$ _____

④ $y = -(x - 3)(x - 3)$ _____

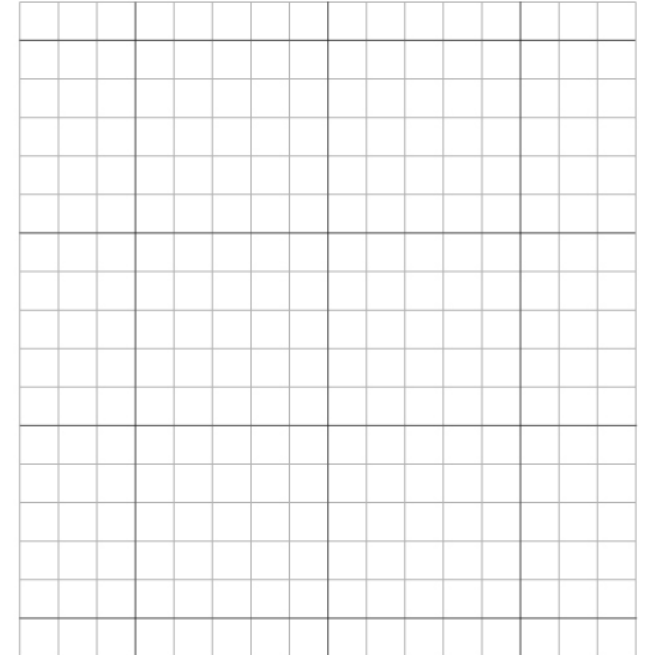
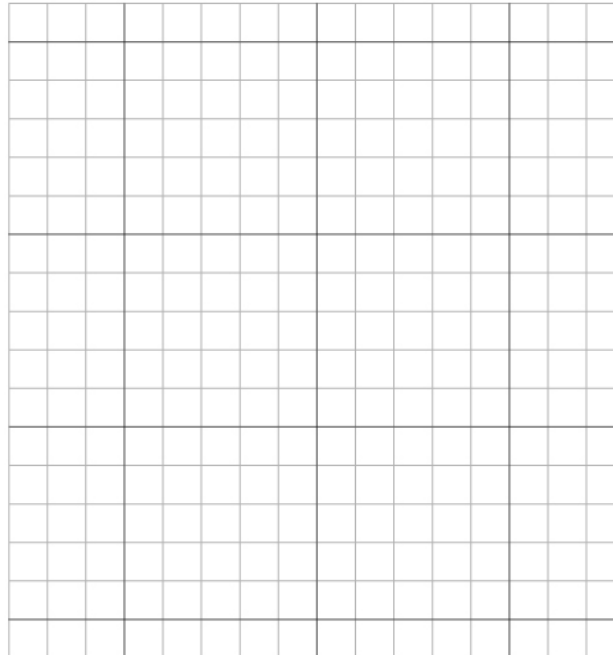
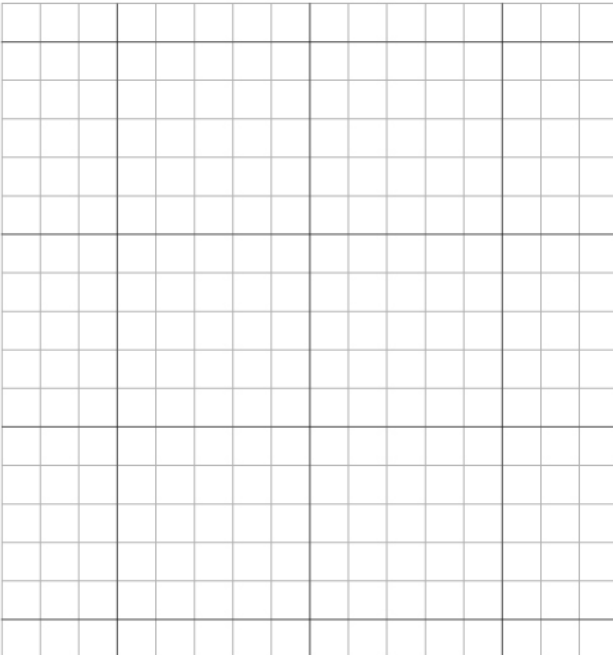
⑧ $y = 3(x + 4)(x - 2)$ _____

Graph the given quadratic functions in standard form.

① $y = -2x^2 + 8x + 9$

② $y = -3x^2 + 12x + 1$

③ $y = x^2 - 2x - 3$



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Answers

Write the quadratic functions in standard form.

① $y = -(x - 1)(x - 1)$

$y = -x^2 + 2x - 1$

⑤ $y = -4x(x + 5)$

$y = -4x^2 - 20x$

② $y = 3(x + 3)(x + 1)$

$y = 3x^2 + 12x + 9$

⑥ $y = (x + 2)(x - 3)$

$y = x^2 - x - 6$

③ $y = (x + 2)(x - 2)$

$y = x^2 - 4$

⑦ $y = 2(x - 1)^2 - 3$

$y = 2x^2 - 4x - 1$

④ $y = -(x - 3)(x - 3)$

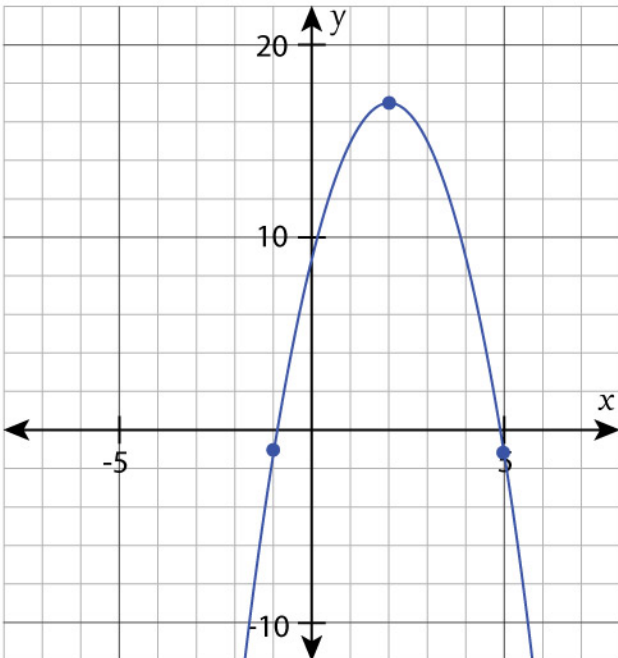
$y = -x^2 + 6x - 9$

⑧ $y = 3(x + 4)(x - 2)$

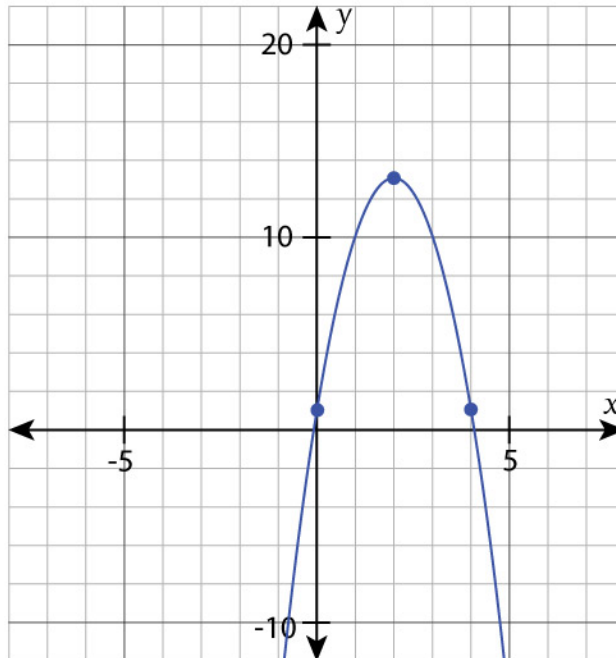
$y = 3x^2 + 6x - 24$

Graph the given quadratic functions in standard form.

① $y = -2x^2 + 8x + 9$



② $y = -3x^2 + 12x + 1$



③ $y = x^2 - 2x - 3$

