

Name: _____

Class/Period: _____

Assignment: quadratic 2

Teacher: Lee

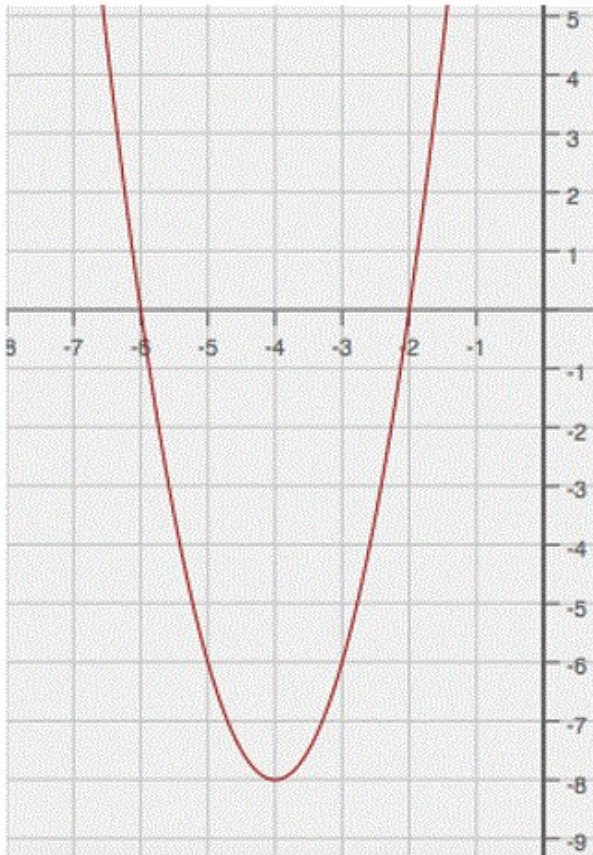
1 What are the solutions to the equation $x^2 + 2x = 12$?

- 1 $-1 \pm \sqrt{13}$
- 2 $-1 \pm \sqrt{11}$
- 3 $1 \pm \sqrt{13}$
- 4 $1 \pm \sqrt{11}$

2 The quadratic equation $x^2 - 6x = 12$ is rewritten in the form $(x + p)^2 = q$, where q is a constant. What is the value of p ?

- 1 -12
- 2 -9
- 3 -3
- 4 9

3 The graph of a quadratic function is shown below.



An equation that represents the function could be

- 1 $f(x) = -2(x - 4)^2 + 8$
- 2 $f(x) = 2(x - 4)^2 + 8$
- 3 $f(x) = -2(x + 4)^2 - 8$
- 4 $f(x) = 2(x + 4)^2 - 8$

4 What are the solutions to the equation $3(x - 4)^2 = 27$?

- 1 1 and 7
- 2 -1 and 7
- 3 $4 \pm \sqrt{24}$
- 4 $-4 \pm \sqrt{24}$

5 What is the solution set of the equation $(x - 2)(x - a) = 0$?

- 1 -2 and a
- 2 -2 and $-a$
- 3 2 and a
- 4 2 and $-a$

6 Which equation and ordered pair represent the correct vertex form and vertex for $j(x) = x^2 - 12x + 7$?

- 1 $j(x) = (x - 6)^2 + 43, (6, 43)$
- 2 $j(x) = (x - 6)^2 + 43, (-6, 43)$
- 3 $j(x) = (x - 6)^2 - 29, (6, -29)$
- 4 $j(x) = (x - 6)^2 - 29, (-6, -29)$