



Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1 For the quadratic function,  $y = x^2 + 2x + 2$ , what is the coordinate of the **turning point**?

- A (0, 2)
- B (-2, 1)
- C (-1, 1)
- D (-1, -1)

2 For the quadratic function, the **axis of symmetry** can be found with the equation  $x = \frac{-b}{2a}$ .

True or false?

- A true
- B false

3 **Inverse variation** means that one variable increase as another decreases.

True or false?

4 The equation for **inverse variation** is  $\frac{x}{y} = k$ , where  $k$  is the constant of variation.

5



## PREVIEW

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7

- C 28
- D 37

- B 4
- C 104
- D 144

9

If  $y$  varies inversely as  $x$ , what is the constant of variation if  $y = 27$  when  $x = 9$ ?

- A 3
- B 4
- C 216
- D 243

10

If  $y$  varies inversely as  $x$ , what is the constant of variation if  $y = 3$  when  $x = 18$ ?

- A 72
- B 54
- C 45
- D 6



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