



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

Please [Sign In](#) or [Sign Up](#) to download the printable version of this worksheet

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



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)

C

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

A

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

True or false?

A

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

B

5



A

## PREVIEW

Please [Sign In](#) or [Sign Up](#) to download the printable version of this worksheet

7

D

- 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

D

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

B