

Functions



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?



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





PREVIEW



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- **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



Functions



Name Class Date For the quadratic function, For the quadratic function, the axis of $y = x^2 + 2x + 2$, what is the symmetry can be found with the coordinate of the turning point? equation $x = \frac{-b}{2a}$ C A A (0, 2) **B** (-2, 1) True or false? C (-1, 1) A true D (-1, -1) **B** false 3 Inverse variation means that one The equation for inverse variation is variable increase as another decreases. $\frac{x}{v} = k$, where k is the constant of variation. True or false? (B) 5 A **PREVIEW** Please Sign In or Sign Up to download 7 the printable version of this worksheet D **B** 4 C 28 **D** 37 C 104 **D** 144 9 10 If y varies inversely as x, what is the If y varies inversely as x, what is the constant of variation if y = 3constant of variation if y = 27when x = 9? when x = 18? (**B**) D **A** 3 A 72 B 4 **B** 54 C 216 C 45 **D** 243 **D** 6