



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)

- 3 **Inverse variation** means that one variable increase as another decreases.
- True or false?
- A true
 - B false

- 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

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

5
H
V
A
E
C
D



PREVIEW

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7
H
V
A
B 23
C 28
D 37

A 3
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



ANSWER KEY

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)

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

(a)

True or false?

- A true
- B false

Inverse variation means that one variable increase as another decreases.

True or false?

- A true
- B false

(a)

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

(b)

True or false?

- A true
- B false



PREVIEW

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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)

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)