

Relate zeros to x-intercepts

1

Find the x intercept of this function by setting y to zero and solving

$$-2x - 2y = 6$$

A -6	B 2	C -2
D -3	E -10	F -13

2

Find the x intercept of this function by setting y to zero and solving

$$-2x - 2y = -9.1$$

A 1.5	B 4.6	C 6.1
D 2.3	E 5.3	F 3

3

Find the x intercept of this function

$$y = 8x + 8.2$$

A 2	B -3.3	C -1.8
D -0.3	E -1	F -4.1

4

Which calculation determines whether $(x + 1)$ is a factor of $f(x)$?

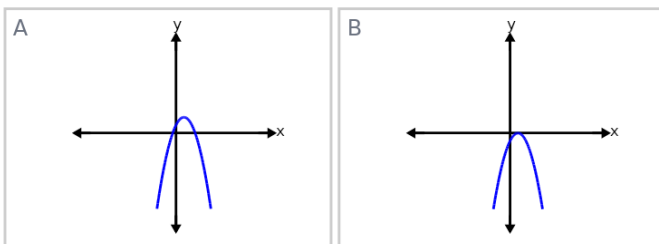
$$f(x) = x^5 - 4x^4 - 6x^3 + 36x^2 - 27x$$

A $f(0) = -1$	B $f(-1) = 0$
C $f(1) = 0$	D $f(0) = 1$

5

Which graph shows this quadratic equation?

$$y = -1x^2 + 2x - 1$$

**6**

What roots (solutions) would this quadratic equation have?

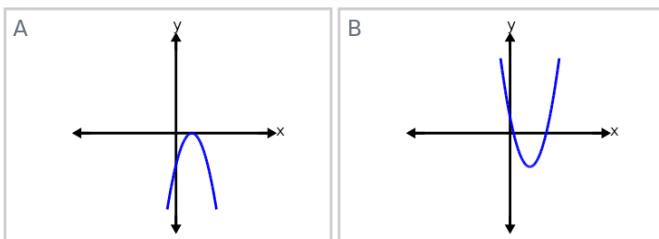
$$y = x^2 + x$$

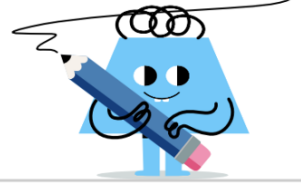
A $x = 0$ $x = -1$	B $x = 4$ $x = 3$
C $x = -1$ $x = 1$	D $x = -1$ $x = 0$

7

Which graph shows this quadratic equation?

$$y = x^2 - 5x + 2$$

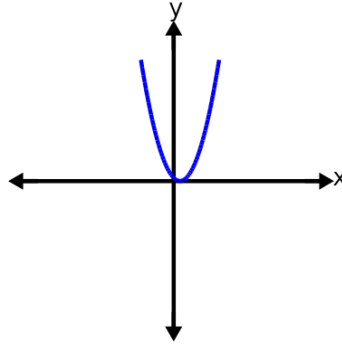




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8

Which root(s) would be valid for this quadratic function?



A

$$x = 1.4$$
$$x = 3.3$$

B

$$x = 0.5$$

9

What roots (solutions) would this quadratic equation have?

$$y = 5x^2 + 2x$$

A

$$x = -2.54$$
$$x = 1.39$$

B

$$x = 4.68$$
$$x = -3.2$$

C

$$x = 0$$
$$x = -0.4$$

D

$$x = -4.25$$
$$x = 0.55$$

10

What roots (solutions) would this quadratic equation have (use the quadratic formula)?

$$y = -x^2 - 2x + 3$$

quadratic formula:

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

A

$$x = 5$$
$$x = 4$$

B

$$x = 5$$
$$x = -6$$

C

$$x = -6$$
$$x = 0$$

D

$$x = -3$$
$$x = 1$$