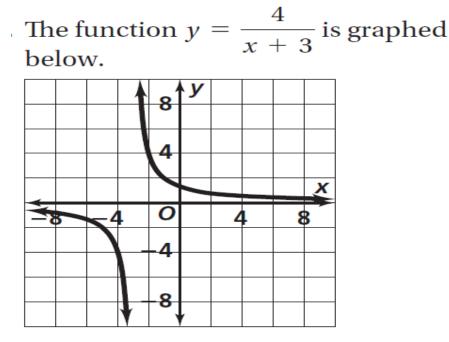
Algebra 1 Quick-Quiz-11062023

Question 1.

Which function is NOT linear?

A x + 2 = y **B** $\frac{x}{4} = y$ **C** x + y - 30 = 3x**D** $y = 25 - x^2$

Question 2

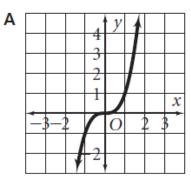


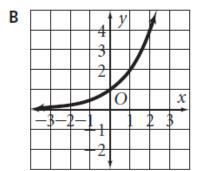
For which values is the function positive?

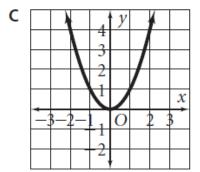
Α	$x \leq 0$	C $x < -3$
В	x > -3	D $x \ge -7$

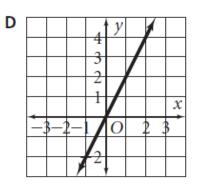
Question 3.

Which of the following is a graph of a quadratic function?



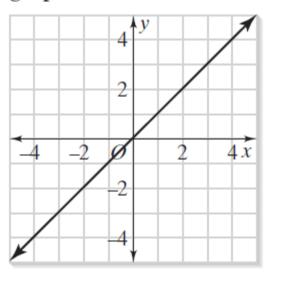






Question 4.

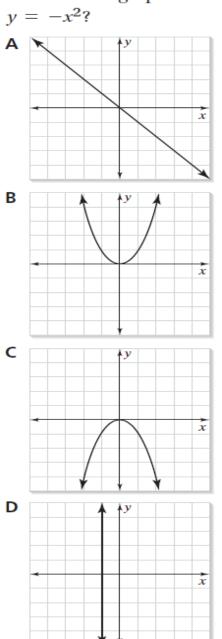
Which equation represents the function graphed below?





Question 5. You should be able to do this question without the use of a graphing calculator.

Which is the graph of the function



Question 6.

Which function does the table of values represent?

	X	-2	-1	0	1	2	
	у	-3	0	1	0	-3	
A $y = -x^2 + 1$ B $y = x^3 - 5$ C $y = -2x^2 - 2$ D $y = 2x^3 + 9$							

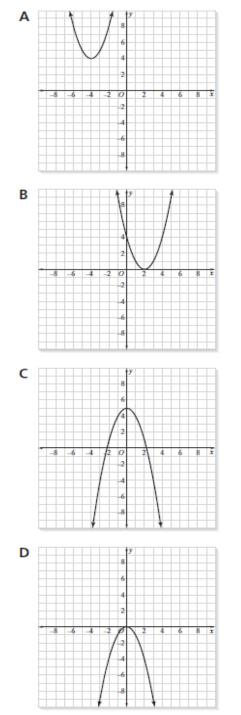
Question 7.

The solutions of a quadratic equation appear on the graph of the function as the _____?

- **A** *x*-intercepts
- **B** *y*-intercepts
- **C** *x*-coordinates of the vertex
- **D** *y*-coordinates of the vertex

Question 8.

Which of the following represents a graph of a quadratic function with no real-number solution?



Question 9.

How many real solutions does the equation $4x^2 - 20x + 25 = 0$ have? A none C two B one D three

Question 10.

Try to solve this equation without using graphing software. You can then use graphs to check your answer.

Solve the equation (x + 3)(2x - 4) = 0. **A** x = -3 or $x = \frac{1}{2}$

A
$$x = -3 \text{ or } x = \frac{1}{2}$$

B $x = 2 \text{ or } x = 3$
C $x = -3 \text{ or } x = 2$
D $x = \frac{1}{2} \text{ or } x = 3$

Bonus Question

Question 11

After finding the zeros of the equation using either graphs or factoring you may want to draw a rectangle to help. Just a suggestion.

A rectangle has dimensions that are zeros of the equation $2x^2 - 17x + 21 = 0$. What is the perimeter of the rectangle?

Α	1.5	С	8.5
В	7	D	17