

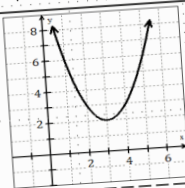
Turkey Quadratics



Why did the turkey get grounded?

Directions: Find the equation that best matches each graph and verbal description. Then, drag and drop the correct answer into the answer box.

1.

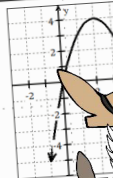


Answer

2. The graph of this parabola opens downward with a vertex at (3, -4)

Answer

3.

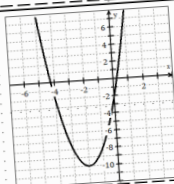


Answer

5.

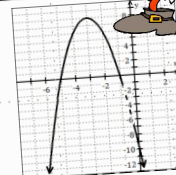
The graph of this parabola is wider than the parent function and has a vertex at (0, 5)

6.



Answer

7.

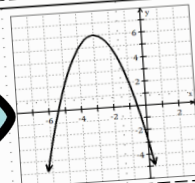


Answer

The graph of this parabola is wider than the parent function with a vertex at (8, -10).

Answer

10.

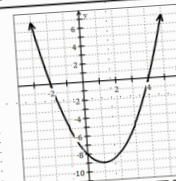


Answer

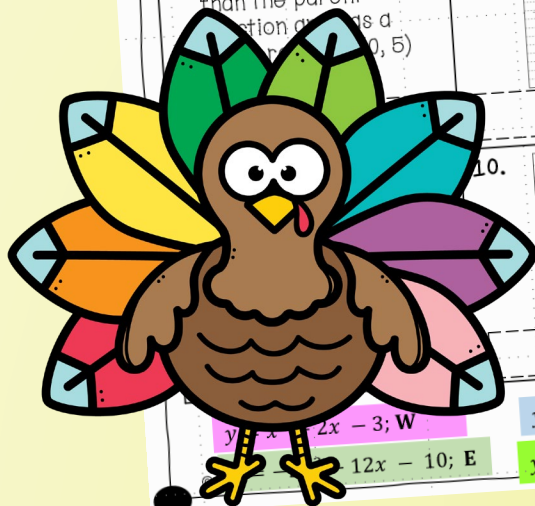
11. The graph of this parabola opens downward with a maximum value of 10.

Answer

12.



Answer



$y = x^2 - 2x - 3$; W

$12x - 10$; E

$y = -0.5x^2 + 4x - 4$; S

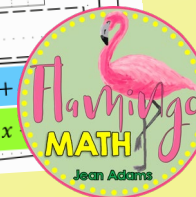
$y = x^2 - 2x - 8$; A

$y = -x^2 + 6x - 13$; H

$y = 2x^2 + 8x - 2$; O

$y = -3x^2 + 6x +$

$y = 0.25x^2 - 2x$

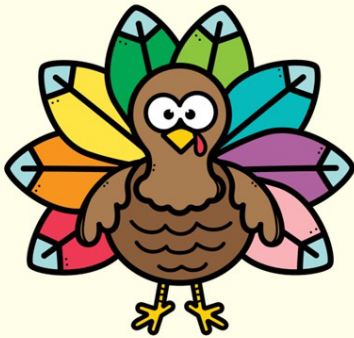


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Turkey Quadratics



Directions:

1. Find the equation that best matches each graph and verbal description.
2. Drag and drop the correct answer into the answer box.
3. Record the letter that corresponds to the problem number in the space provided to answer the Thanksgiving riddle.
4. Follow the directions for completing your teacher.

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Why did the turkey get grounded?

Directions: Find the equation that best matches each graph and verbal description. Then, drag and drop the correct answer into the answer box.

1.	2. The graph of this parabola opens downward with a vertex at $(3, -4)$.	3.	4.
Answer	Answer	Answer	Answer
5. The graph of this parabola is wider than the parent function and has a y-intercept at $(0, 5)$.	6.	7.	8. The graph of this parabola is wider than the parent function with a vertex at $(8, -10)$.
Answer	Answer	Answer	Answer
9.	10.	11. The graph of this parabola opens downward with a maximum value of 10.	12.
Answer	Answer	Answer	Answer

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Name: _____

Solving Quadratic Equations



Find the exact solutions for each equation. Show your work in the space provided.
Then find your answer in the paths leading from that question on the maze to find the solution.

1. $4x - x^2 = 0$	2. $x^2 - 8x + 15 = 0$	3. $-x^2 - 6x = 3$	4. $x^2 = 13 - 6x$
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5. $-11 = 0$	6. $-2x^2 - 12x - 10 = 0$	7. $\frac{1}{2}x^2 - 6x + 10 = 0$	8. $6x^2 - 11x - 10 = 0$
9. $z = 6$	10. $9x^2 + 4 = 12x$	11. $6x^2 - 11x - 10 = 0$	12. $6x^2 - 11x - 10 = 0$

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$x^2 - 8x + 15 = 0$ {0,4}

$4x - x^2 = 0$ {1,4}

$9x^2 + 4 = 12x$ $\left\{\frac{3}{2}, \frac{1}{2}\right\}$

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$-x^2 - 6x = 3$ $\{\pm 2\sqrt{5}\}$

$x^2 + 9x + 20 = 0$ $\{\pm 7\}$

$x^2 - 2x = 6$ $\left\{\frac{2}{3}, \frac{5}{2}\right\}$

$6x^2 - 11x - 10 = 0$

$2x^2 + 12x + 16 = 0$ $\{-3 \pm \sqrt{22}\}$

$x^2 = 13 - 6x$ $\{-3, 21\}$

$-2x^2 - 12x - 10 = 0$ $\{-1, 5\}$

$\frac{1}{4}x^2 - 2x + 6 = 0$

$x^2 = 4$ $\{-2, 2\}$

$x^2 - 6x + 11 = 0$ $\{\pm 3\sqrt{2}\}$

$2x^2 + 18 = 0$ $\{\pm 3i\}$

$\frac{1}{2}x^2 - 6x + 10 = 0$

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