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Notes 2 Unit 3 Quadratic Graphs

Graphing in standard form: $y = ax^2 + bx + c$

A parabola is not always centered in the middle. In fact, whenever there is a middle term that is not zero, it is centered in a different spot.

Identify the axis of symmetry and vertex (reference):

- $y = x^2 - 4x + 4$ (Vertex: (2, 0))
- $y = x^2 + 4x + 4$ (Vertex: (-2, 0))
- $y = x^2 - 4x + 5$ (Vertex: (2, 1))
- $y = x^2 + 4x + 5$ (Vertex: (-2, 1))

Identify a, b, c in the equations (these are not the ones from the above graphs):

- $y = 2x^2 + 4x + 4$ (a=2, b=4, c=4)
- $y = 2x^2 + 4x - 4$ (a=2, b=4, c=-4)
- $y = -2x^2 + 4x + 4$ (a=-2, b=4, c=4)
- $y = -2x^2 + 4x - 4$ (a=-2, b=4, c=-4)

Use the equation $x = -\frac{b}{2a}$ to calculate the x value of the vertex of each:

- $x = -\frac{4}{2(2)} = -1$
- $x = -\frac{4}{2(2)} = -1$
- $x = -\frac{4}{2(-2)} = 1$
- $x = -\frac{4}{2(-2)} = 1$

Plug it back into the equation to get the y value, and then write the vertex:

- $y = 2(-1)^2 + 4(-1) + 4 = 2 - 4 + 4 = 2$ (Vertex: (-1, 2))
- $y = 2(-1)^2 + 4(-1) - 4 = 2 - 4 - 4 = -6$ (Vertex: (-1, -6))
- $y = -2(1)^2 + 4(1) + 4 = -2 + 4 + 4 = 6$ (Vertex: (1, 6))
- $y = -2(1)^2 + 4(1) - 4 = -2 + 4 - 4 = -2$ (Vertex: (1, -2))

When $a > 0$, the vertex is a **minimum**.
When $a < 0$, the vertex is a **maximum**.

The function $h = -16t^2 + 250t$ represents the height h (in feet) of a rocket t seconds after it is launched. The rocket explodes at its highest point.

- When does the rocket explode?
 $t = \frac{-b}{2a} = \frac{-250}{2(-16)} = 7.8125$ seconds
- At what height does the rocket explode?
 $h = -16(7.8125)^2 + 250(7.8125) = 976.5625$ ft

Name _____ Date _____

2.2 Practice B

Multiply. Write the answer in simplest form.

- $8 \times \frac{1}{10}$
- $\frac{1}{2} \times 9$
- $\frac{3}{5} \times 15$
- $12 \times \frac{5}{3}$
- $\frac{5}{7} \times 21$
- $20 \times \frac{3}{8}$
- $\frac{7}{9} \times 36$
- $\frac{11}{12} \times 24$
- $35 \times \frac{9}{14}$

10. Describe and correct the error in finding the product.

$\begin{array}{r} 3 \\ \times 4 \\ \hline 12 \end{array}$

Use compatible numbers to estimate the product.

- $\frac{1}{6} \times 29$
- $41 \times \frac{2}{5}$
- $28 \times \frac{7}{9}$

Evaluate the expression when $x = 12$, $y = \frac{5}{8}$, and $z = 24$.

- $\frac{2}{3} \times x$
- $10 \div y$
- z^2
- $\frac{11}{2}$

18. Your grandparents have a back yard that is 60 feet long and 48 feet wide. They are making a garden that is half the length and $\frac{2}{3}$ the width. What is the area of the garden?

19. You bought 40 packages of streamers that were red, white, and blue. One-fourth of the streamers were red and $\frac{2}{5}$ of the streamers were blue. How many packages of white streamers did you buy?

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Right Triangles and Trigonometry

Section 4.1

Classify the right triangles

- Right triangle with legs of length 3 and 4, and hypotenuse of length 5. The angle opposite the side of length 3 is 37° . What is the angle opposite the side of length 4?
 a. 37° b. 53°
 c. 90° d. 180°
- The side of a right triangle opposite an angle of 30° is 5 units long. The hypotenuse of the triangle is 10 units long. What is the length of the side adjacent to the 30° angle?
 a. 5 b. $5\sqrt{3}$
 c. $10\sqrt{3}$ d. $10\sqrt{2}$
- The side of a right triangle adjacent to an angle of 45° is 10 units long. The angle opposite the side of length 10 is 45° . The hypotenuse of the triangle is $10\sqrt{2}$ units long. What is the length of the side opposite the 45° angle?
 a. 10 b. $10\sqrt{2}$
 c. $10\sqrt{3}$ d. $20\sqrt{2}$

Use the figure for Questions 4 and 5.

- What is the angle opposite the side of length 4?
 a. 37° b. 53°
 c. 90° d. 180°
- What is the angle opposite the side of length 3?
 a. 37° b. 53°
 c. 90° d. 180°

Use the figure for Questions 6 and 7.

- What is the angle opposite the side of length 4?
 a. 37° b. 53°
 c. 90° d. 180°
- What is the angle opposite the side of length 3?
 a. 37° b. 53°
 c. 90° d. 180°

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