

Name _____

1 A student correctly graphed the parabola shown below to solve a given quadratic equation.

What are the roots of the quadratic equation associated with this graph?

(1) -6 and 3 (3) -3 and 2
 (2) -6 and 0 (4) -2 and 3

2 What is the range of data represented in the box-and-whisker plot shown below.

(1) 40 (3) 60
 (2) 45 (4) 100

3 Which is the graph of $y = |x| + 2$?

(1) (2) (3) (4)

4 The projected worth (in millions of dollars) of a large company is modeled by the equation $y = 276(1.03)^x$. The variable x represents the number of years since 1997. What is the projected annual percent of growth, and what should the company be worth in 2007?

[A] 13%; \$382.05 million [B] 13%; \$284.28 million
 [C] 3%; \$370.92 million [D] 3%; \$360.12 million

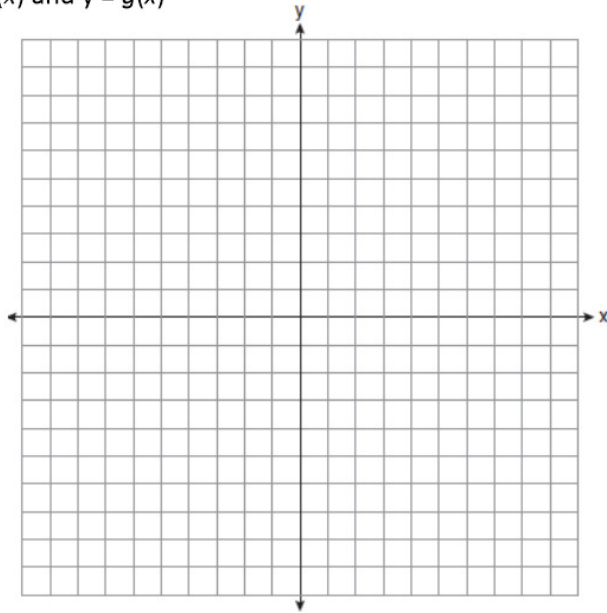
5 Write the equation that represents the line that passes through the points (5, 4) and (-5, 0)

6 The cost of 3 markers and 2 pencils is \$1.80. The cost of 4 markers and 6 pencils is \$2.90. What is the cost of each item? Include appropriate units in your answer.

monday

tuesday

7 Let $f(x) = x^2 + 4x - 5$ and $g(x) = x - 1$. On the set of axes below draw $y = f(x)$ and $y = g(x)$



Using this graph, determine and state *all* values of x for which $f(x) = g(x)$.

8

Graph: $4x + 3 > 2(x + 1)$

- [A]
- [B]
- [C]
- [D]

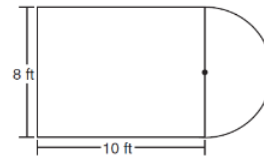
9

Find the value of x in the following equation.

$$\frac{2x}{5} + \frac{1}{3} = \frac{7x - 2}{15}$$

10

The basketball court consists of a rectangle and a semi-circle.



A. Write an expression, in terms of π , to represent the area of the entire basketball court.

B. Find the area of the entire basketball court to the nearest hundredth.

wednesday

thursday