

Math 2 Chapter 8 Practice Quiz #15

1. Write the quadratic in graphing form by completing the square. What is the vertex? What is the y-intercept?

$$y = x^2 + 10x + 11$$

vertex: (_____, _____)

y-intercept (0, _____)

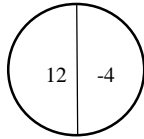
2. Use a graphing calculator to find the x-intercepts of the quadratic in problem #1. Round them to the nearest hundredth.

(_____, 0)

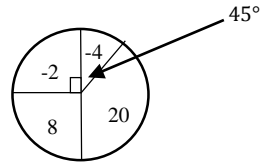
(_____, 0)

3. Find the expected value of one spin.

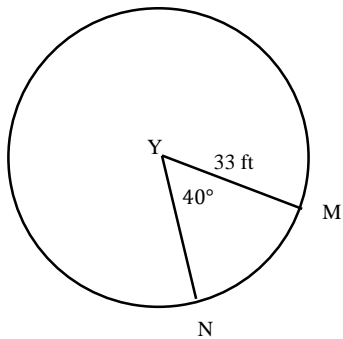
(a)



(b)



4. Find the circumference and area of $\odot Y$ (leave your answers in terms of π). Then find the length of MN and the area of the shaded sector (use the π button on your calculator and round to the nearest hundredth).



Circumference of $\odot Y =$ _____

Area of $\odot Y =$ _____

Length of $MN =$ _____

Area of sector = _____