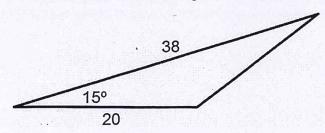
Bellwork Wednesday, March 20, 2019

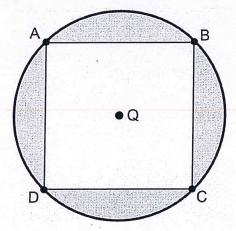
1. Find the area of this triangle to the nearest hundredth.



2. The Standard Form for the equation of a circle is: $(x-h)^2 + (y-k)^2 = r^2$ where the center of the circle is (h,k) and the radius of the circle is r.

The center of a circle is (3,-2) and the point (-1,-2) is on the circle. Write the equation of this circle.

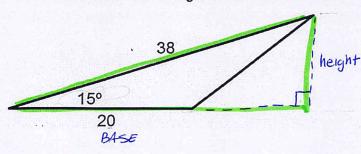
3. Find the area of the shaded region in the figure below. Square ABCD is inscribed in Circle Q. The perimeter of the square is 16 in. Round to the nearest tenth.

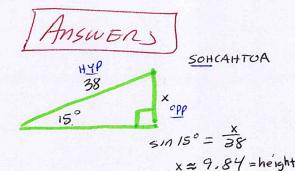


- 4. The function f is defined by $f(x) = 2b^x$, where b is a constant. The graph of f in the xy-plane passes through the point (1,1). What is the value of f(-1)?
- A) -4
- B) -1
- C) 1
- D) 4

Wednesday, March 20, 2019 Bellwork

1. Find the area of this triangle to the nearest hundredth.

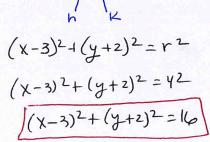


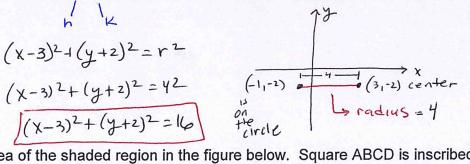


Area =
$$\frac{1}{2}bh = \frac{1}{2}(20)(9.84)$$
Area = 98.35 using exact value of x

2. The Standard Form for the equation of a circle is: $(x-h)^2 + (y-k)^2 = r^2$ where the center of the circle is (h, k) and the radius of the circle is r.

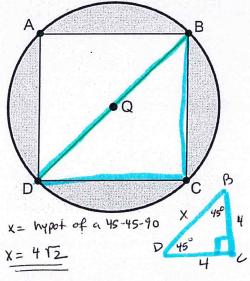
The center of a circle is (3,-2) and the point (-1,-2) is on the circle. Write the equation of this circle.





radius is the distance from the center to any point on thele

3. Find the area of the shaded region in the figure below. Square ABCD is inscribed in Circle Q. The perimeter of the square is 16 in. Round to the nearest tenth.



Area of Circle $A = \pi r^2$ r = qB which is DB = 412 R = 212 = r $A = \pi(212)^2$ $A = 2\pi$ Naif of DB.

Augmal of the

Square.

4. The function f is defined by $f(x) = 2b^x$, where b is a constant. The graph of f in the xy-plane passes through the point (1,1). What is the value of f(-1)?

$$f(x) = 2b^{x} \longrightarrow y = 2b^{x} \quad using (1,1) \quad replace x and y$$

$$uith 1 \quad and \quad solve \quad for \quad b$$

$$1 = 2b^{1}$$

$$1 = 2b$$

$$b = 1/2 \longrightarrow f(x) = 2(\frac{1}{2})^{x}$$

$$f(-1) = 2(\frac{1}{2})^{-1}$$

$$= 2(2) = 4$$