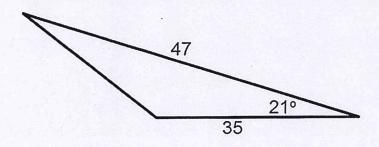
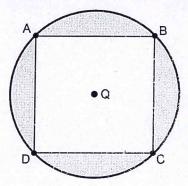
1. Find the area of this triangle to the nearest hundredth.



2. 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.



- 3. 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

Bellwork

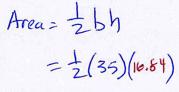
Alg 2

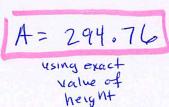
Thursday, March 21, 2019

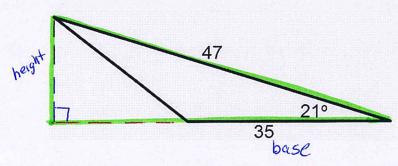
4th & 6th hrs

ANSWERS

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





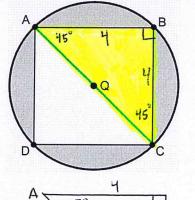




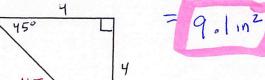
$$\sin 21^\circ = \frac{x}{47}$$
 $x = 16.84$

$$x = 16.84$$

2. 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.



SHADED ANEAS



SHADED REGION = Area of Circle - Area of square

Area of square = (side)2

Area of circle = Tr2

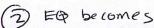
Area =
$$\pi(2\pi)^2 = (8\pi)$$

3. 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

Use 45-45-90 or pythagorean theorem

- B) -1
- C) 1
- D) 4



$$f(x) = 2\left(\frac{1}{2}\right)^{x}$$

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

$$=2(\frac{2}{1})!$$

$$= 2(2) = (4$$

$$f(x) = 2b^{x}$$

use the given point (111) to