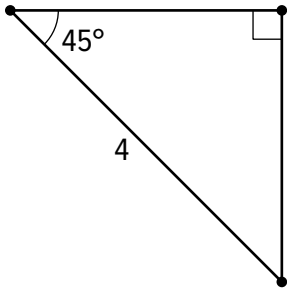


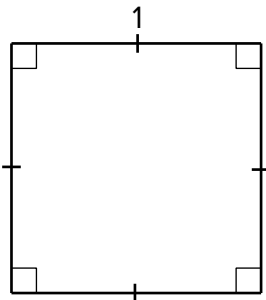
Class #6 Practice

1. Find the lengths of the legs.

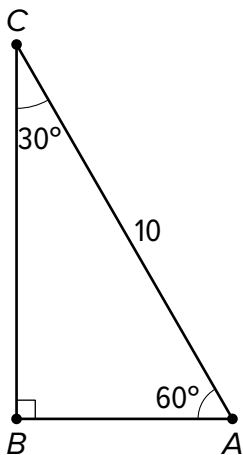


- A. $4\sqrt{2}$ units
- B. $\frac{4}{\sqrt{2}}$ units
- C. 4 units
- D. Not enough information

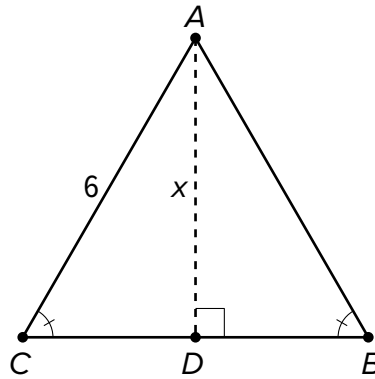
2. What is the length of the diagonal?



2. Find the length of each leg.



1. Select **all** statements that are true about equilateral triangle ABC .



- A. Angles B and C are 60 degrees.
- B. $x = 3\sqrt{3}$
- C. $x = 6\sqrt{3}$
- D. Triangle ABD is congruent to triangle ACD .
- E. BD and CD are both 3 units long.

What is the area of triangle ABC ?



Practice

Working with Trigonometric Ratios

1. Select **all** true statements:

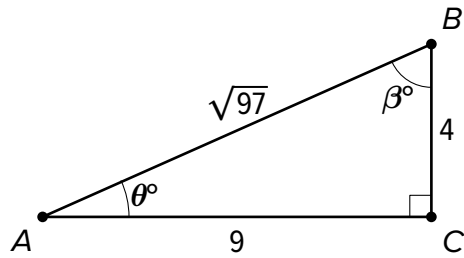
A. $\sin(\theta) = \frac{4}{\sqrt{97}}$

B. $\tan(\beta) = \frac{9}{4}$

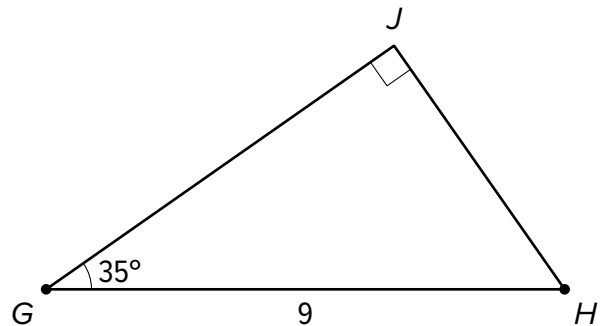
C. $\tan(\beta) = \frac{4}{9}$

D. $\cos(\beta) = \frac{4}{\sqrt{97}}$

E. $4^2 + 9^2 = 97$



2. Write an expression that can be used to find the length of JH and an expression that can be used to find the length of GJ .







Practice

Sine and Cosine in the Same Right Triangle

1. Select **all** the true equations.

A. $\cos(15) = \sin(15)$

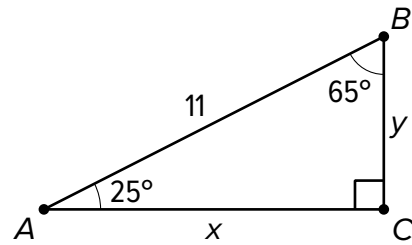
B. $\cos(75) = \sin(15)$

C. $\cos(75) = \cos(15)$

D. $\cos(15) = \sin(75)$

E. $\tan(15) = \tan(75)$

2. Write 2 expressions that can be used to find the value of x .



6. Select **all** true equations. (Lesson 4-8)

A. $\cos(37) = \sin(53)$

B. $\tan(37) = \tan(53)$

C. $\sin(37) = \cos(53)$

D. $\sin(37) = \sin(53)$

E. $\cos(\theta) = \sin(90 - \theta)$