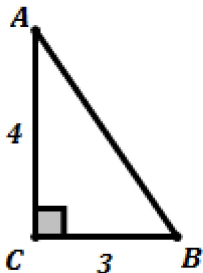


Unit 04-01 - Right Triangle Trig

Multiple Choice

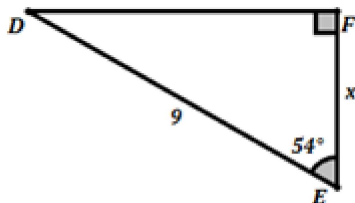
Identify the choice that best completes the statement or answers the question.

- _____ 1. Find the value of $\tan(B)$.



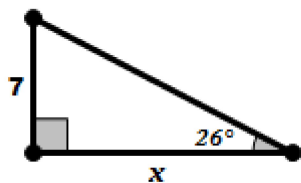
- | | |
|------------------|------------------|
| a. $\frac{3}{4}$ | c. $\frac{4}{5}$ |
| b. $\frac{3}{5}$ | d. $\frac{4}{3}$ |

- _____ 2. Determine the approximate value of x using basic trigonometry.
(Round to the nearest hundredth.)



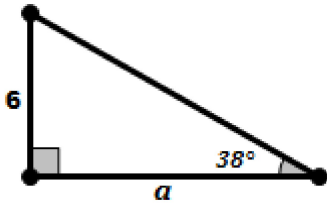
- | | |
|---------------------|----------------------|
| a. $x \approx 5.29$ | c. $x \approx 10.85$ |
| b. $x \approx 7.46$ | d. $x \approx 17.01$ |

- _____ 3. Determine the approximate value of x using basic trigonometry.
(Round to the tenths if necessary.)



- | | |
|--------------------|---------------------|
| a. $x \approx 0.1$ | c. $x \approx 6.3$ |
| b. $x \approx 3.4$ | d. $x \approx 14.4$ |

4. Which of the following statements would best represent the value of a ?



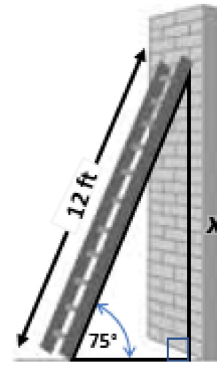
a. $a = 6 \cos(38^\circ)$

c. $a = \frac{6}{\tan(38^\circ)}$

b. $a = \frac{6}{\sin(38^\circ)}$

d. $a = 6 \tan(38^\circ)$

5. A 12 foot ladder leans against a building at a 75° with the ground. Which equation below can be used to find how high the ladder reaches up the side of the building?



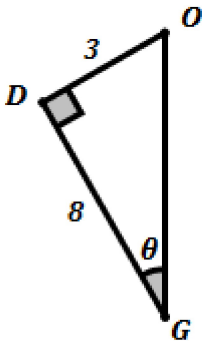
a. $\sin(75^\circ) = \frac{12}{x}$

c. $\cos(75^\circ) = \frac{x}{12}$

b. $\tan(75^\circ) = \frac{12}{x}$

d. $\sin(75^\circ) = \frac{x}{12}$

6. Determine the approximate value of θ .



a. 20.6°

c. 68.0°

b. 22.0°

d. 69.4°

