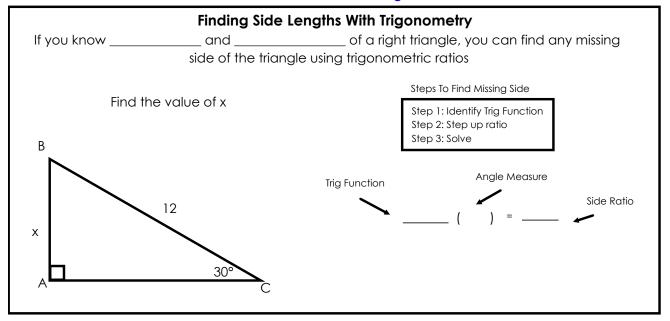
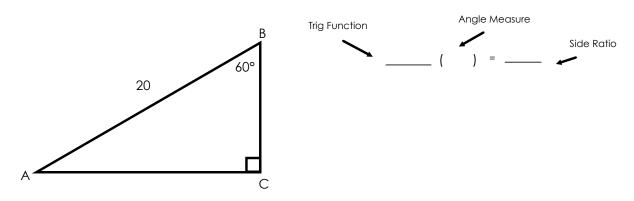
8.2 Solving For Sides With Trigonometric Ratios

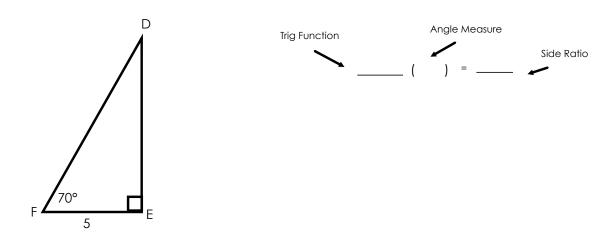
Students will be able find the ratio's of trigonometric ratio's



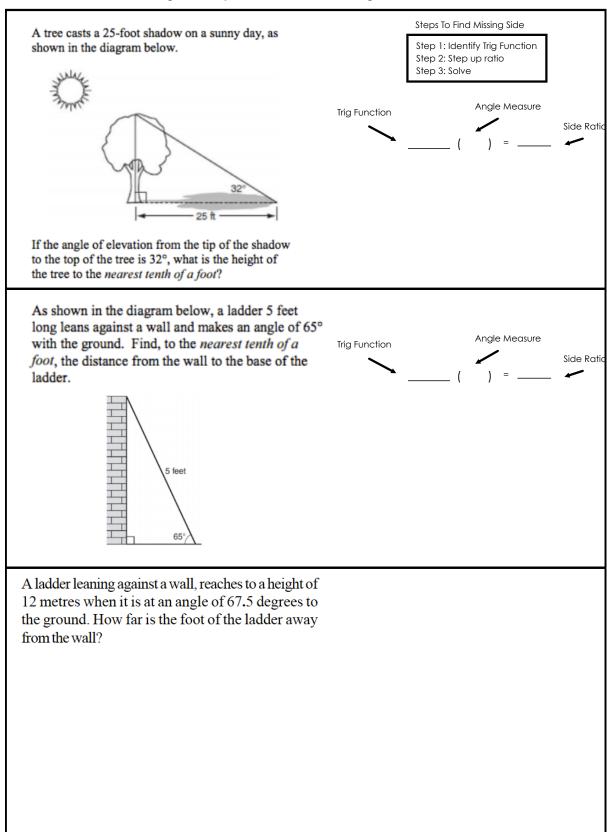
Find the length of BC



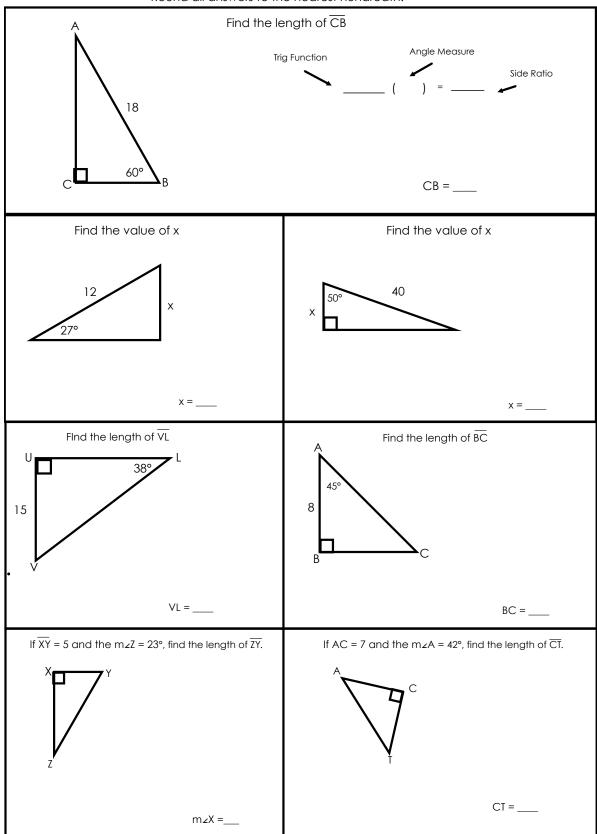
Find the length of DE. Round your answer to the nearest hundredth.



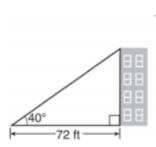
Trigonometry Word Problems - Solving for a Side



Independent PracticeRound all answers to the nearest hundredth!



As shown in the diagram below, a building casts a 72-foot shadow on the ground when the angle of elevation of the Sun is 40°.



How tall is the building, to the nearest foot?

As shown in the diagram below, a ladder 12 feet long leans against a wall and makes an angle of 72° with the ground.



Find, to the *nearest tenth of a foot*, the distance from the wall to the base of the ladder.

A 10-foot ladder is to be placed against the side of a building. The base of the ladder must be placed at an angle of 72° with the level ground for a secure footing. Find, to the *nearest inch*, how far the base of the ladder should be from the side of the building *and* how far up the side of the building the ladder will reach.