

Name: \_\_\_\_\_

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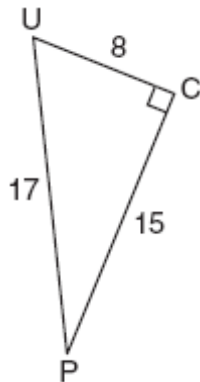
## Learning Check #1 – Unit 11 – Right Triangle Trigonometry

**IA.TR.1** I can find the sine, cosine and tangent ratios of any angle in a right triangle if I am given the corresponding sides of the triangle.

Score: 1-4

Use the below triangle to find:

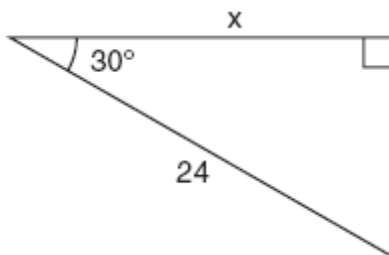
1. Sine of  $\angle U$
2. Cosine of  $\angle P$
3. Tangent of  $\angle U$



**IA.TR.2** I can the length of a side in a triangle if I am given one of the acute angles and the length of another side.

Score: 1-4

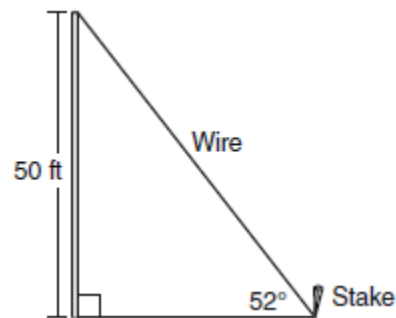
1. In the right triangle below, what is the value of  $x$  to the nearest whole number?



**IA.TR.3** I can solve word problems that ask for a length or distance using the trigonometric ratios.

Score: 1-4

1. A stake is to be driven into the ground away from the base of a 50-foot pole, as shown in the diagram below. A wire from the stake on the ground to the top of the pole is to be installed at an angle of elevation of  $52^\circ$ .



How far away from the base of the pole should the stake be driven in, to the nearest foot?