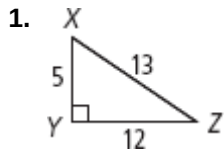


8-3 Worksheet (SIN – COS – TAN)
Geometry – Kraft

Name: _____

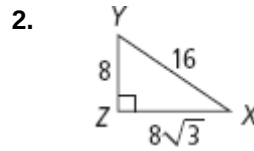
Write the ratios for $\sin X$, $\cos X$, and $\tan X$.



$\sin X$: _____

$\cos X$: _____

$\tan X$: _____

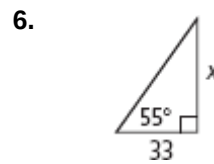
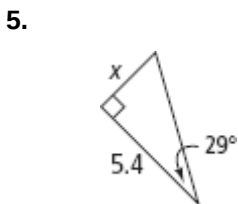


$\sin X$: _____

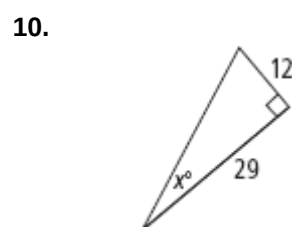
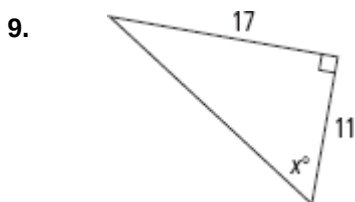
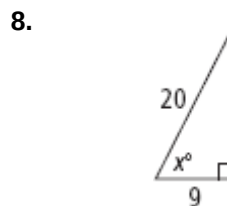
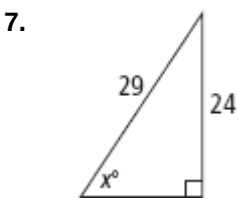
$\cos X$: _____

$\tan X$: _____

Write the equation and find the value of x . Round to the nearest tenth.

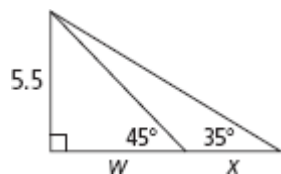


Write the equation and find the value of x . Round to the nearest degree.



Find the values of w and then x . Round lengths to the nearest tenth and angle measures to the nearest degree.

11.



12.



Draw a picture for the following. Then write equation and solve.

13. An escalator at a shopping center is 200 ft 9 in. long, and rises at an angle of 15° .

What is the vertical rise of the escalator? Round to the nearest inch.

14. A 12-ft-long ladder is leaning against a wall and makes a 77° angle with the ground.

How high does the ladder reach on the wall? Round to the nearest inch.

15. A straight ramp rises at an angle of 25.5° and has a base 30 ft long.

How high is the ramp? Round to the nearest foot.

16. The lengths of the diagonals of a rhombus are 5 in. and 8 in.

Find the measures of the angles of the rhombus to the nearest degree.

17. A right triangle has an angle that measures 28° . The leg opposite the 28° angle measures 13.

Find the length of the other leg and the hypotenuse. Round your answers to the nearest tenth.