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NAME _____ DATE _____

TRIGONOMETRY: Worksheet 2

Use adjacent, opposite and hypotenuse to write ratios for each trig function.

1) _____ sine

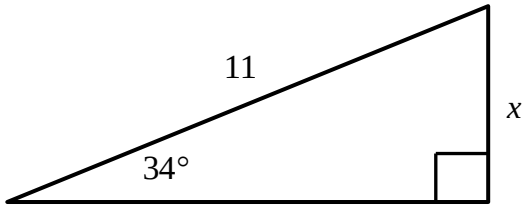
2) _____ cosine

3) _____ tangent

Write the equation (using sine, cosine or tangent) you would use to find x in each right triangle. Then solve for x. Give answers to the nearest tenth.

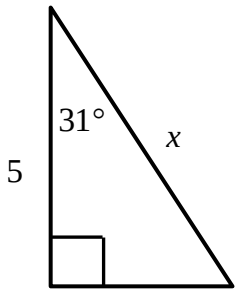
4) _____
Equation

x = _____



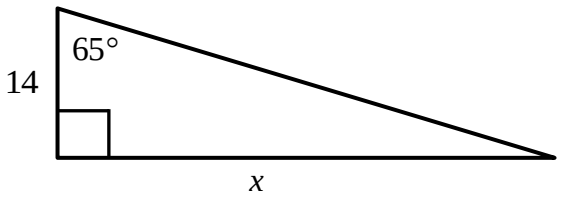
5) _____
Equation

x = _____



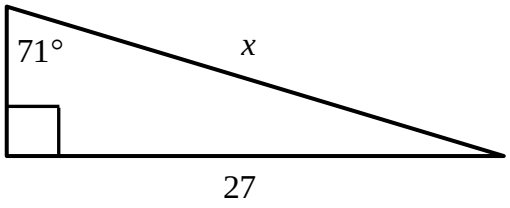
6) _____
Equation

x = _____



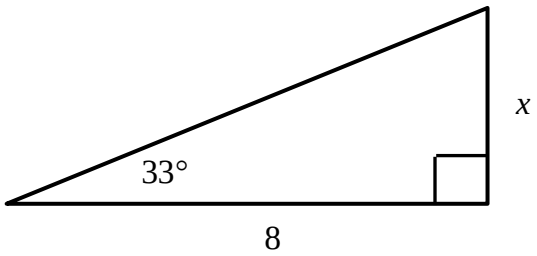
7) _____
Equation

x = _____



8) _____
Equation

x = _____



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KEY
TRIGONOMETRY: Worksheet 2

Use adjacent, opposite and hypotenuse to write ratios for each trig function.

1) $\frac{opposite}{hypotenuse}$ sine

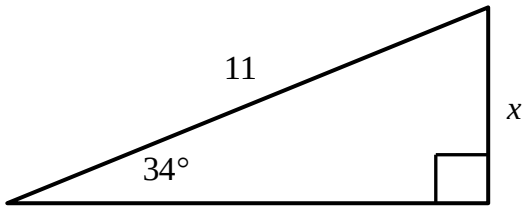
2) $\frac{adjacent}{hypotenuse}$ cosine

3) $\frac{opposite}{adjacent}$ tangent

Write the equation (using sine, cosine or tangent) you would use to find x in each right triangle. Then solve for x. Give answers to the nearest tenth.

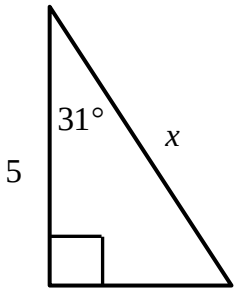
4) $\sin 34° = \frac{x}{11}$
Equation

x = 6.2



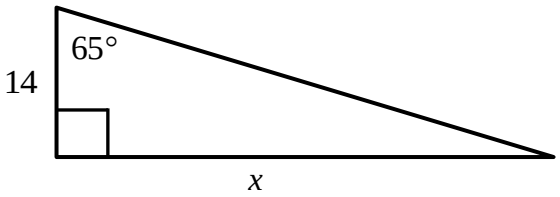
5) $\cos 31° = \frac{5}{x}$
Equation

x = 5.8



6) $\tan 65° = \frac{x}{14}$
Equation

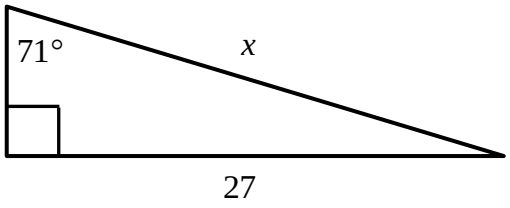
x = 30.0



7) $\sin 71° = \frac{27}{x}$

Equation

$x =$ 28.6



8) $\tan 33° = \frac{x}{8}$

Equation

$x =$ 5.2