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NAME _____ DATE _____

TRIGONOMETRY: Worksheet 1

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

1) _____ sine

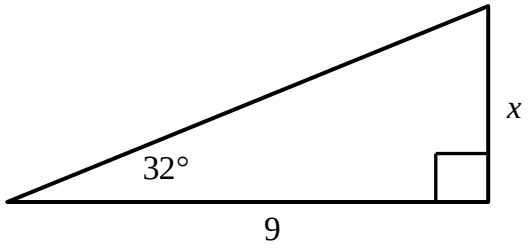
2) _____ cosine

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.

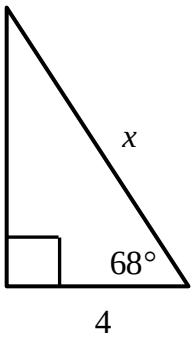
4) _____
Equation

x = _____



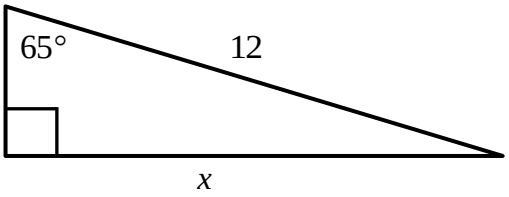
5) _____
Equation

x = _____



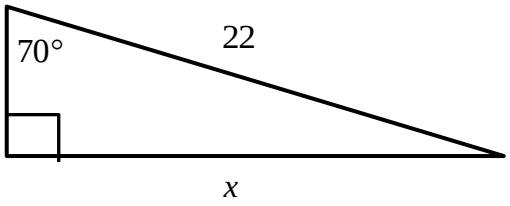
6) _____
Equation

x = _____



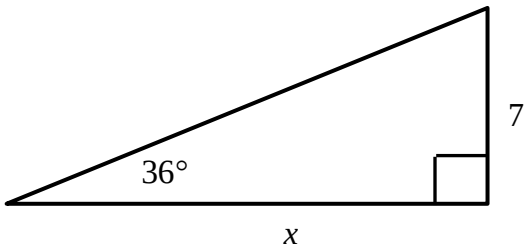
7) _____
Equation

x = _____



8) _____
Equation

x = _____



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KEY
TRIGONOMETRY: Worksheet 1

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

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

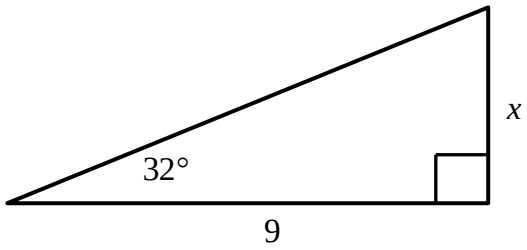
2) $\frac{adjacent}{hypotenuse}$ cosine

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.

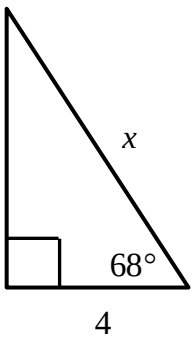
4) $\tan 32° = \frac{x}{9}$
Equation

x = 5.6



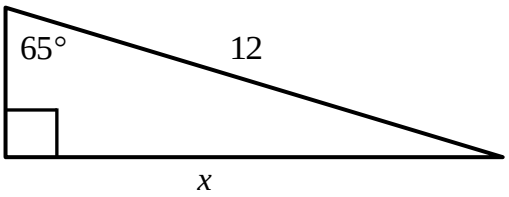
5) $\cos 68° = \frac{4}{x}$
Equation

x = 10.7



6) $\sin 65° = \frac{x}{12}$
Equation

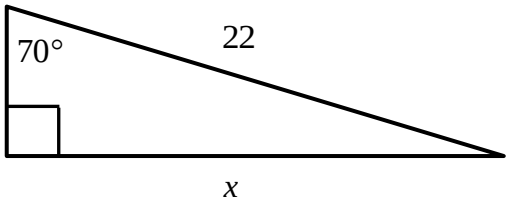
x = 10.9



7) $\sin 70° = \frac{x}{22}$

Equation

x = 20.7



8) $\tan 36° = \frac{7}{x}$

Equation

x = 9.6