

EXAMPLE 3: Let $\angle A$ be an acute angle in a right triangle. Approximate the measure of $\angle A$ to the nearest degree.

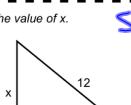
a) $\cos \angle A = .3907 \rightarrow \angle A = \underline{\hspace{2cm}}$ °

b) $\tan \angle A = 8.1443 \rightarrow \angle A = \underline{\hspace{2cm}}$ °

c) $\sin \angle A = .6293 \rightarrow \angle A = \underline{\hspace{2cm}}$ °

d) $\tan \angle A = .3640 \rightarrow \angle A = \underline{\hspace{2cm}}$ °

EXAMPLE 4: Find the value of x .



Equation: $\sin 27^\circ = \frac{x}{12}$

$.4540 = \frac{x}{12}$

$12(.4540) = x$

$5.45 = x$

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6 NOTES Trigonometric Ratios.pdf - [Geometry: Week 2.1] Day 5 - Go PDF Review... File View Go to Zoom Properties Settings Help

EXAMPLE 6:

$\cos 54^\circ = \frac{x}{10}$

$.58778x = 8$

$x = 13.61$

Equation: _____
 $x = 13.61$

$\tan 54^\circ = \frac{y}{8}$

$(1.3764)y = 8$

$y = 5.84$

Equation: _____
 $y = 5.84$

QUICK CHECK:

$\tan 75^\circ = \frac{y}{25}$

$.4663y = x$

$x = 21.45$

Equation: _____
 $x = 21.45$

$\sin 75^\circ = \frac{y}{x}$

$.4226y = 21.45$

$y = 51.26$

Equation: _____
 $y = 51.26$

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