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Trigonometry

PRACTICE

1. Determine the value of each ratio rounded to four decimal places.
(a) $\sin 35^{\circ} \quad 0.5736$
(b) $\cos 60^{\circ} \quad 0.5000$
(c) $\tan 45^{\circ} \quad 1.0000$
(d) $\cos 75^{\circ} \quad 0.2588$
(e) $\sin 18^{\circ} \quad 0.3090$

Trigonometry
RECALL!
If the value of a trigonometric ratio is known, its corresponding angle can be found using the inverse of that ratio. For example, if $\cos \theta=0.50$ then $\theta=\cos ^{-1}(0.50)$.

- for $\sin ^{-1}$ use: 2nd $\sin$
- for $\cos ^{-1}$ use: 2nd $\cos$
- for $\tan ^{-1}$ use: 2nd tan

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Trigonometry
PRACTICE
2. Determine the size of $\angle A$ rounded to the nearest degree.
(a) $\sin A=0.5299 \quad 32$
(b) $\cos A=0.4226$
(c) $\tan A=4.3315$
(d) $\cos A=0.5000$ 6
(e) $\sin A=0.2419 \quad 14$
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Trigonometry
PRACTICE
3. Solve for x rounded to one decimal place.
(a) $\sin 35^{\circ}=x / 8 \quad 4.6$
(b) $\cos 70^{\circ}=x / 15 \quad 5.1$
(c) $\tan 20^{\circ}=3 / \mathrm{x} \quad 8.2$
(d) $\sin 85^{\circ}=6 / x \quad 6.0$
(e) $\cos 25^{\circ}=5 / x \quad 5.5$

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Trigonometry
PRACTICE
4. Use two different methods to find the value of the unknown(s) in each triangle. Round your answers to one decimal place.

$\mathrm{X}=12.2 \mathrm{~mm}$
$Y=54.1 \mathrm{~cm}$
$\theta=64.3^{\circ}$

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