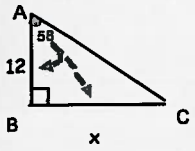
Example 4 - Solve for the missing side



Solution

Tangent A = $\frac{\text{opposite side}}{\text{adjacent side}}$

add a 1 to create a proportion

cross multiply then divide

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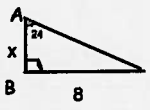
Example 5 - Solve for the missing side



Solution Tangent A = $\frac{\text{opposite side}}{\text{adjacent side}}$

Tangent 24 = $\frac{8}{x}$

add a 1 to create a proportion

$\frac{\text{Tangent 24}}{1} = \frac{8}{x}$

cross multiply then divide

Tangent 24 x = 8 x 1

$\frac{\text{Tangent 24 } x}{\text{Tangent 24}} = \frac{8}{\text{Tangent 24}}$

$x = \frac{8}{\text{Tangent 24}}$

x = 17 .97

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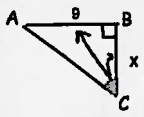
Example 6 - Solve for the missing side



Solution

Tangent C = $\frac{\text{opposite side}}{\text{adjacent side}}$

add a 1 to create a proportion

cross multiply then divide

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Assignment page 80 # 3, 4, 5, 6, 7
page 81 # 10 , 12
page 82 # 14

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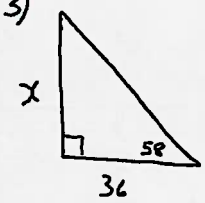
3)



$\text{Tan} = \frac{opp}{adj}$

$\text{Tan } 58 = \frac{x}{36}$

$\frac{\text{Tan } 58}{1} = \frac{x}{36}$

$1x = \text{Tan } 58 \times 36$

$x = 57.6$

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4)

$\text{Tan } 42 = \frac{opp}{adj}$

$\frac{\text{Tan } 42}{1} = \frac{46}{x}$

$\text{Tan } 42\, x = 1 \times 46$

$\frac{\text{Tan } 42\, x}{\text{Tan } 42} = \frac{46}{\text{Tan } 42}$

$x = \frac{46}{\text{Tan } 42}$

$x = 51$

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Jul 8-10:29 AM