Name _____ Date _____

Tangent Ratios - Guided Lesson Explanation

Explanation#1

Tangent Ratio: for any acute angle θ of a right triangle.

Tan ø = $\frac{Opposite}{Adjacent}$

Step 3) Tan ø = $\frac{Opposite}{Adjacent}$

Tan 50° = $\frac{200}{x}$

Tan 50° x = 200

1.192 x = 200

x = 200/1.192

x = 167.82 Answer is: 167.82

Explanation#2

Tangent Ratio: for any acute angle θ of a right triangle.

Tan ø = $\frac{Opposite}{Adjacent}$

Step 3) Tan ø = $\frac{Opposite}{Adjacent}$

Tan V = $\frac{70}{35}$

Tan V = 2

Finding the inverse of tan 2, we got 63.43°.

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Explanation # 3

Tangent Ratio: for any acute angle θ of a right triangle.

Tan ø = $\frac{Opposite}{Adjacent}$

Step 3) Tan ø = $\frac{Opposite}{Adjacent}$

Tan 35° = $\frac{x}{25}$

Tan 35° x 25 = x

.700 x 25 = x

x = 17.5