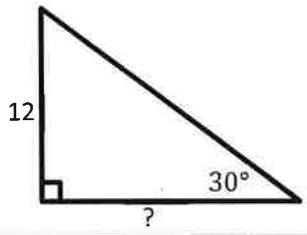
Name: KEY

Trigonometry of Right Angle Triangles – TOA

Solve for the missing side of the right angle triangle, round to the nearest ~~whole number~~ tenth.

1.



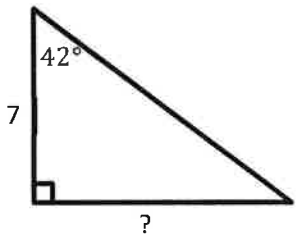
$\tan 30° = \frac{12}{x}$

$x(\tan 30) = 12$

$x = \frac{12}{\tan 30}$

$x = 20.8$

2.

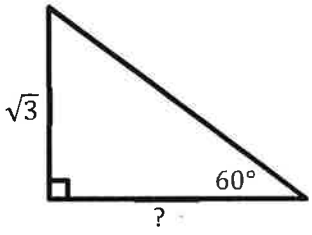


$\tan 42 = \frac{x}{7}$

$7(\tan 42) = x$

$x = 6.3$

3.



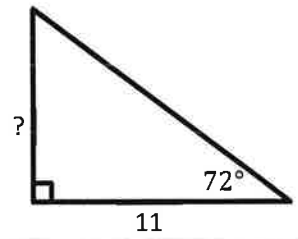
$\tan 60° = \frac{\sqrt{3}}{x}$

$x(\tan 60) = \sqrt{3}$

$x = \frac{\sqrt{3}}{\tan 60}$

$x = 1$

4.

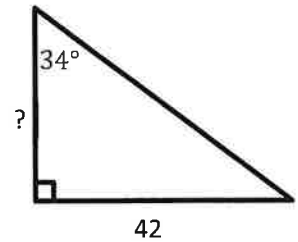


$\tan 72° = \frac{x}{11}$

$11(\tan 72) = x$

$x = 33.9$

5.



$\tan 34 = \frac{42}{x}$

$x(\tan 34) = 42$

$x = \frac{42}{\tan 34}$

$x = 62.3$

Triangles not to scale, trust the math