

Honors Geometry

Notes Section 7.5

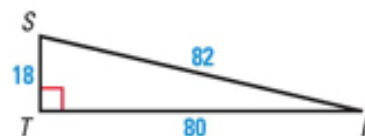
Apply the Tangent Ratio

Trigonometric Ratio: _____

Tangent: _____ ; _____

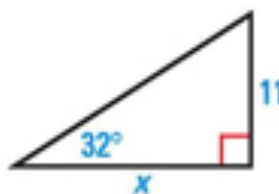
EXAMPLE 1 Find the $\tan S$ and $\tan R$. Write each answer as a fraction and as a decimal rounded to the four places.

$\tan S =$ _____



$\tan R =$ _____

EXAMPLE 2 Find the value of x .

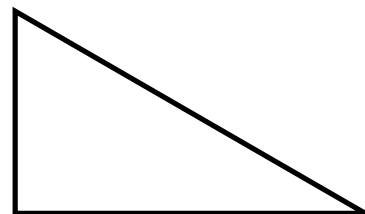


EXAMPLE 3 Find the height h of the lamppost to the nearest inch.

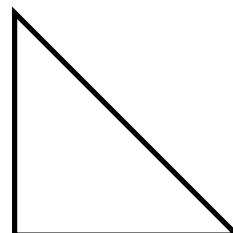


EXAMPLE 4 Use a special right triangle to find the tangent of a 60° angle, 30° angle and a 45° angle.

$\tan 60^\circ =$



$\tan 30^\circ =$



$\tan 45^\circ =$