

Warm-up

2-11

Find the length of \overline{EF} :

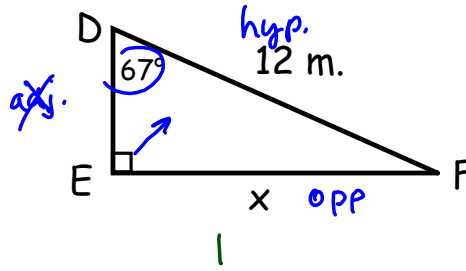
SOH CAH TOA

$$(12) \sin(67^\circ) = \frac{x}{12}$$

$$12 \sin(67^\circ) = x$$

$$12(0.92) = x$$

$$\boxed{11.04 \text{ m}} = x$$



I can use trigonometric ratios and the Pythagorean Theorem to solve right triangles.		
G6-1 I can use the Pythagorean Theorem:		
G6-2 I can find the side lengths of special right triangles:		
Warm-up	isosceles right triangle $45^\circ-45^\circ-90^\circ$ 	half an equilateral triangle $30^\circ-60^\circ-90^\circ$
G6-2		
G6-3 I can Label the sides of a right triangle and write the trig ratio.		
G6-4 I understand that by similarity, side ratios in right triangles are properties of the angles in the triangle.		
G6-5 I can use trigonometry to find missing side lengths or angles.		
Warm-up	Steps: 1. Label the sides 2. Write the equation 3. Solve for x TO FIND AN ANGLE: $\sin^{-1}\left(\frac{\text{opp}}{\text{hyp}}\right) = \theta$ $\cos^{-1}\left(\frac{\text{adj}}{\text{hyp}}\right) = \theta$ $\tan^{-1}\left(\frac{\text{opp}}{\text{adj}}\right) = \theta$ arcsin	<p>SOH CAH TOA</p> $(\uparrow) \sin(50^\circ) = \frac{x}{7}$ $(\uparrow) \sin(50^\circ) = x$ $5.36 \text{ m} = x$ $\sin^{-1}\left(\frac{9}{12}\right) = \theta$ $48.59^\circ = \theta$
G6-5		
G6-6 I can apply trig ratios and the Pythagorean theorem.		
Warm-up	****G6-7 I can use the law of sines to find missing side lengths in any triangle.	