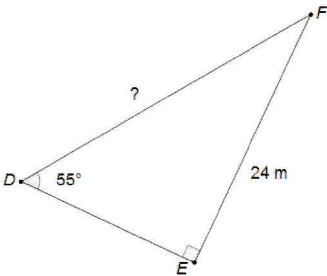
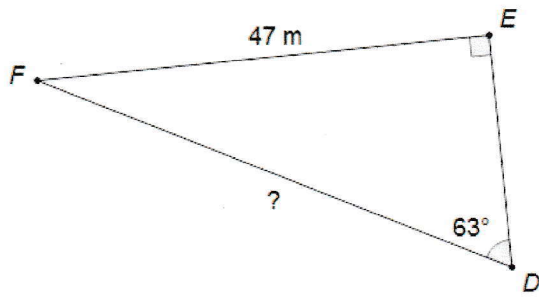


Trigonometric Ratios

In the left column, record the solution set-up for the five questions as discussed in the activity. Then return to the right column and begin the solution set-up for the unknown (?) side or angle. Save your work in your ePortfolio. You will return to complete the solution at a later date.

You do not determine or solve for the unknown value at this time.

	Example from the activity:	Your turn:
1		
	<p>solution set-up</p> $\sin \angle D = \frac{\text{opp}}{\text{hyp}}$ $\sin 55^\circ = \frac{24}{?}$	<p>solution set-up</p> $\sin \angle D = \frac{\text{opp}}{\text{hyp}}$ $\sin 63^\circ = \frac{47}{?}$

	Example from the activity:	Your turn:
2		
	<p>solution set-up</p> $\cos \angle P = \frac{\text{adj}}{\text{hyp}}$ $\cos 35^\circ = \frac{?}{10}$	<p>solution set-up</p> $\cos \angle P = \frac{\text{adj}}{\text{hyp}}$ $\cos 29^\circ = \frac{?}{43}$

	Example from the activity:	Your turn:
3		
	<p>solution set-up</p> $f^2 + d^2 = e^2$ $(12)^2 + d^2 = 20^2$	<p>solution set-up</p> $f^2 + d^2 = e^2$ $f^2 + 23^2 = 54^2$

	Example from the activity:	Your turn:
4		
	<p>solution set-up</p> $\tan \angle B = \frac{\text{opp}}{\text{adj}}$ $\tan \angle B = \frac{18}{13}$	<p>solution set-up</p> $\tan \angle B = \frac{\text{opp}}{\text{adj}}$ $\tan \angle B = \frac{27}{13}$

	Example from the activity:	Your turn:
5		<p>A 5 m ladder leans against the wall and rests at a point 4.6 m above the ground. What is the angle between the ground and the ladder?</p>
	<p>solution set-up</p> $\tan \angle P = \frac{\text{opp}}{\text{adj}}$ $\tan 38^\circ = \frac{?}{57}$	<p>solution set-up</p> $\sin \angle W = \frac{\text{opp}}{\text{hyp}}$ $\sin \angle W = \frac{4.6}{5}$

$$\tan(\text{angle}) = \frac{\text{opposite}}{\text{adjacent}}$$

$$\tan 16^\circ = \frac{25}{?}$$