Shared on mathslinks.net

Using trigonometry to find a missing side (solving for the numerator)

Question Find <i>x</i> :	x 53°	x	51°	x 70° 2.5	13 44° x	x 9.2 9.2
Trig ratio	$\tan 53^\circ = \frac{x}{6}$	$\sin 40^\circ = \frac{x}{13}$	$\tan 51^\circ = \frac{x}{5}$	$\tan 70^\circ =$		
Re-arrange	$x = 6 \times \tan 53^{\circ}$	$x = 13 \times \sin 40^{\circ}$	<i>x</i> =	<i>x</i> =		
Calculator	x = 7.96226893	x =	<i>x</i> =	<i>x</i> =		
Round (1dp)	x =	x =	x =	x =		

Using trigonometry to find a missing side (solving for the numerator)

Shared on mathslinks.net

Question	x 53°	40° x	51°	x 70° 2.5	13 44° x	x 9.2 9.2
Trig ratio	$\tan 53^\circ = \frac{x}{6}$	$\sin 40^\circ = \frac{x}{13}$	$\tan 51^\circ = \frac{x}{5}$	tan 70° =		
Re-arrange	$x = 6 \times \tan 53^{\circ}$	$x = 13 \times \sin 40^{\circ}$	x =	<i>x</i> =		
Calculator	x = 7.96226893	x =	<i>x</i> =	<i>x</i> =		
Round (1dp)	<i>x</i> =	<i>x</i> =	<i>x</i> =	<i>x</i> =		