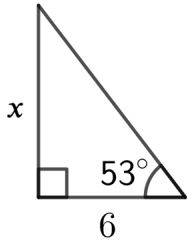
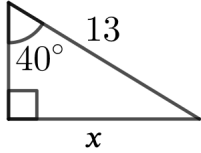
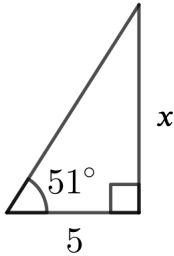
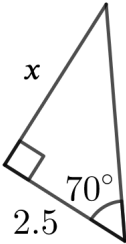
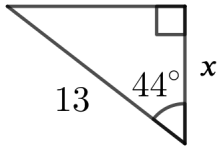
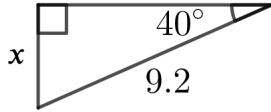
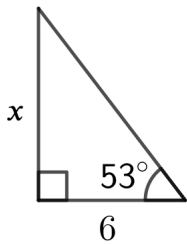
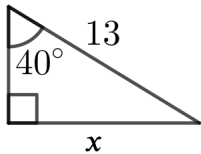
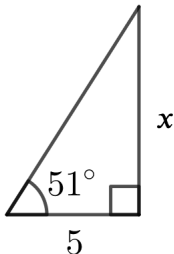
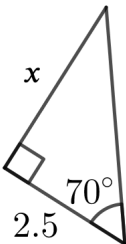
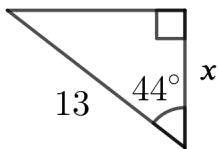
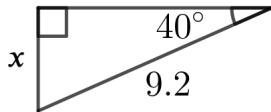


Using trigonometry to find a missing side (solving for the numerator)

Question Find x :						
Trig ratio	$\tan 53^\circ = \frac{x}{6}$	$\sin 40^\circ = \frac{x}{13}$	$\tan 51^\circ = \frac{x}{5}$	$\tan 70^\circ = \frac{x}{2.5}$	$\cos 44^\circ = \frac{x}{13}$	$\sin 40^\circ = \frac{x}{9.2}$
Re-arrange	$x = 6 \times \tan 53^\circ$	$x = 13 \times \sin 40^\circ$	$x = 6 \times \tan 53^\circ$	$x = 2.5 \times \tan 70^\circ$	$x = 13 \times \cos 44^\circ$	$x = 9.2 \times \sin 40^\circ$
Calculator	$x = 7.96226893$	$x = 8.356238926$	$x = 6.174485783$	$x = 6.868693549$	$x = 9.351417404$	$x = 5.913646009$
Round (1dp)	$x = 8.0$	$x = 8.4$	$x = 6.2$	$x = 6.9$	$x = 9.4$	$x = 5.9$

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

Question						
Trig ratio	$\tan 53^\circ = \frac{x}{6}$	$\sin 40^\circ = \frac{x}{13}$	$\tan 51^\circ = \frac{x}{5}$	$\tan 70^\circ = \frac{x}{2.5}$	$\cos 44^\circ = \frac{x}{13}$	$\sin 40^\circ = \frac{x}{9.2}$
Re-arrange	$x = 6 \times \tan 53^\circ$	$x = 13 \times \sin 40^\circ$	$x = 6 \times \tan 53^\circ$	$x = 2.5 \times \tan 70^\circ$	$x = 13 \times \cos 44^\circ$	$x = 9.2 \times \sin 40^\circ$
Calculator	$x = 7.96226893$	$x = 8.356238926$	$x = 6.174485783$	$x = 6.868693549$	$x = 9.351417404$	$x = 5.913646009$
Round (1dp)	$x = 8.0$	$x = 8.4$	$x = 6.2$	$x = 6.9$	$x = 9.4$	$x = 5.9$