



Fill In The Blanks...



Finding Angles Using Trigonometry

Labelled diagram	Choose ratio	Substitute into formula	Rearrange formula	Answer (1dp)
	cos	$\cos x = \frac{7}{12}$	$x = \cos^{-1}\left(\frac{7}{12}\right)$	54.3°
	sin	$\sin x = \frac{5}{8}$	$x = \sin^{-1}\left(\frac{5}{8}\right)$	38.7°
	cos	$\cos x = \frac{23}{40}$	$x = \cos^{-1}\left(\frac{23}{40}\right)$	54.9°
	tan	$\tan x = \frac{7.2}{3.5}$	$x = \tan^{-1}\left(\frac{7.2}{3.5}\right)$	64.1°
	sin	$\sin x = \frac{2}{13}$	$x = \sin^{-1}\left(\frac{2}{13}\right)$	8.8°
	tan	$\tan x = \frac{2.2}{2.7}$	$x = \tan^{-1}\left(\frac{2.2}{2.7}\right)$	39.2°
	cos	$\cos x = \frac{2}{3}$	$x = \cos^{-1}\left(\frac{2}{3}\right)$	48.2°
	tan	$\tan x = \frac{15}{11}$	$x = \tan^{-1}\left(\frac{15}{11}\right)$	53.7°