

1. Make x the subject of each equation:

$$\sin(y) = \frac{x}{z} \quad x = z \sin(y)$$

$$\cos(f) = \frac{x}{g} \quad x = g \cos(f)$$

$$\tan(t) = \frac{s}{x} \quad x = \frac{s}{\tan(t)}$$

$$\sin(a) = \frac{b}{x} \quad x = \frac{b}{\sin(a)}$$

$$\cos(x) = \frac{m}{n} \quad x = \cos^{-1}\left(\frac{m}{n}\right)$$

$$\sin(x) = \frac{p}{q} \quad x = \sin^{-1}\left(\frac{p}{q}\right)$$

$$\sin(l) = \frac{x}{m} \quad x = l \sin(m)$$

$$\cos(r) = \frac{x}{s} \quad x = s \cos(r)$$

$$\tan(a) = \frac{b}{x} \quad x = \frac{b}{\tan(a)}$$

$$\sin(t) = \frac{v}{x} \quad x = \frac{v}{\sin(t)}$$

$$\cos(x) = \frac{y}{z} \quad x = \cos^{-1}\left(\frac{y}{z}\right)$$

$$\sin(x) = \frac{d}{f} \quad x = \sin^{-1}\left(\frac{d}{f}\right)$$

2. Make x the subject of each equation:

$$\sin(40) = \frac{x}{12} \quad x = 12 \sin(40)$$

$$\tan(20) = \frac{x}{2} \quad x = 2 \tan(20)$$

$$\tan(75) = \frac{h}{x} \quad x = \frac{h}{\tan(75)}$$

$$\cos(55) = \frac{p}{x} \quad x = \frac{p}{\cos(55)}$$

$$\cos(a) = \frac{x}{4} \quad x = 4 \cos(a)$$

$$\tan(87) = \frac{x}{v} \quad x = v \tan(87)$$

$$\sin(60) = \frac{x}{14} \quad x = 14 \sin(60)$$

$$\cos(45) = \frac{y}{x} \quad x = \frac{y}{\cos(45)}$$

$$\sin(70) = \frac{x}{w} \quad x = w \sin(70)$$

$$\tan(15) = \frac{4}{x} \quad x = \frac{4}{\tan(15)}$$

$$\cos(21) = \frac{x}{65} \quad x = 65 \cos(21)$$

$$\tan(17) = \frac{x}{5} \quad x = 5 \tan(17)$$

2. Solve the equations, giving your answers to 2 d.p.:

$$\sin(30) = \frac{x}{2} \quad x = 1$$

$$\cos(45) = \frac{4}{x} \quad x = 2.83$$

$$\tan(x) = \frac{2}{3} \quad x = 33.69$$

$$\cos(x) = \frac{4}{7} \quad x = 55.15$$

$$\sin(40) = \frac{x}{12} \quad x = 7.71$$

$$\tan(75) = \frac{3}{x} \quad x = 0.80$$

$$\cos(25) = \frac{x}{2} \quad x = 1.81$$

$$\tan(55) = \frac{x}{5} \quad x = 7.14$$

$$\sin(60) = \frac{x}{14} \quad x = 12.12$$

$$\cos(45) = \frac{8}{x} \quad x = 11.31$$

$$\sin(70) = \frac{x}{11} \quad x = 10.34$$

$$\tan(15) = \frac{4}{x} \quad x = 14.93$$