

N5 - Relationships

Worksheet 3





Outcome 1 - Solving Trig Equations

Solve the following trig equations...

$$4 9 \sin x^{\circ} + 4 = 0 0 \le x \le 360^{\circ}$$

$$\stackrel{2}{=}$$
 5 cos x° + 2 = 0 0 < x < 360°

$$3$$
 14 tan x° + 9 = 0 0 $\leq x \leq 360^{\circ}$

$$4 = 8 \cos x^{\circ} + 12 = 7 \qquad 0 \le x \le 360^{\circ}$$

$$5 = 6 \tan x^{\circ} + 7 = 2 \qquad 0 \le x \le 360^{\circ}$$

$$7 \sin x^{\circ} + 5 = 2$$
 $0 \le x \le 360^{\circ}$

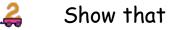
Outcome 2 - Trig Identities

Prove the following trig identities...



Show that

$$10tanxcosx = 10sinx$$



$$\frac{1}{\cos x} \times \tan x = \frac{\sin x}{\cos^2 x}$$