Find  $y$ 

$$\frac{\sin y}{21} = \frac{\sin 62}{35}$$

$$y = 31.99^\circ$$

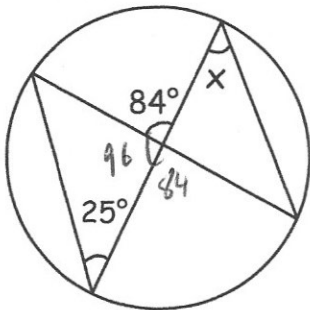
Line 1 has equation  $y = 4x - 1$   
 Line 2 has equation  $2y - 8x + 7 = 0$

Show these lines are parallel

$$2y = 8x - 7$$

$$y = 4x - 3.5$$

both gradients are 4.

Find  $x$ 

$$180 - 96 - 25 = 59^\circ$$

$h$  is directly proportional to the square of  $w$ .

When  $h = 24$ ,  $w = 2$ .Find the value of  $h$  when  $w = 4$ .

$$h \propto w^2$$

$$h = kw^2$$

$$24 = k \times 4$$

$$k = 6$$

$$h = 6w^2$$

$$h = 6 \times 4^2$$

$$h = 96$$

Solve

$$\frac{10x - 3}{3} + \frac{5x + 2}{4} = 5$$

$$\frac{40x - 12}{12} + \frac{15x + 6}{12} = 5$$

$$55x - 6 = 60$$

$$55x = 66$$

$$x = 1.2$$