



Solve

$$\frac{5x+2}{x-3} + 5 = 6$$

$$\frac{5x+2}{x-3} = 1$$

$$5x + 2 = x - 3$$

$$4x + 2 = -3$$

$$4x = -5$$

$$x = -\frac{5}{4} \quad (-1.25)$$

Factorise

$$9y^2 - 49w^2$$

$$(3y + 7w)(3y - 7w)$$

A sector has side length 4cm.

The area of the sector is  $10\text{cm}^2$ 

What is the size of the angle which describes the sector?

$$\frac{\theta}{360} \times \pi \times 4^2 = 10$$

$$\theta \times \pi \times 16 = 3600$$

$$\theta \times \pi = 225$$

$$\theta = 71.62^\circ$$

Work out

$$625^{\frac{3}{4}}$$

$$\sqrt[4]{625} = 5$$

$$5^3 = 125$$

Simplify  $(2x^4y)^3$ 

$$8x^{12}y^3$$