



Solve the simultaneous equations

$$6x + 4y = 3 \quad \times 3$$

$$2x - 3y = 14 \quad \times 4$$

$$18x + 12y = 9$$

$$8x - 12y = 56$$

$$26x = 65$$

$$x = 2.5$$

$$15 + 4y = 3$$

$$4y = -12$$

$$y = -3$$

$$x = 2.5$$

$$y = -3$$

Work out, giving your answer in standard form

$$(8.2 \times 10^6) - (3.51 \times 10^5)$$

$$\begin{array}{r} 7 \quad 1 \quad 9 \\ 8200000 \\ - 351000 \\ \hline 7849000 \end{array}$$

$$\text{Ans } 7.849 \times 10^6$$

Write as a fraction 6^{-3}

$$\frac{1}{6^3} = \frac{1}{216}$$

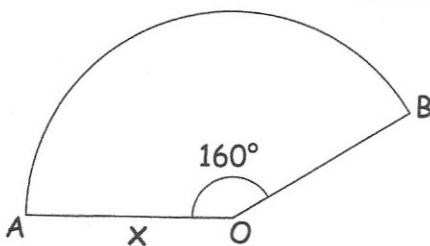
Write down the value of 16^0

1

Simplify fully

$$\frac{4x^2 - 25}{6x^2 - 11x - 10} \quad \frac{(2x/5)(2x+5)}{(2x/5)(3x+2)}$$

$$\frac{2x+5}{3x+2}$$

The area of sector OAB is 500cm^2
Find x .

$$\frac{160}{360} \times \pi \times x^2 = 500$$

$$x^2 = 358.098622$$

$$x = 18.923 \text{ cm}$$