



Solve

$$3x^2 = 192$$

$$x^2 = 64$$

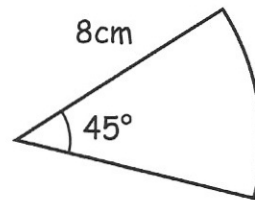
$$x = 8 \text{ or } x = -8$$

Find the perimeter of the sector.

$$\frac{45}{360} \times \pi \times 16 = 6.283\dots$$

$$6.283\dots + 8 + 8$$

$$22.28\text{cm}$$



Solve the simultaneous equations

$$3x - 4y = 18 \quad \times 2$$

$$2x - 5y = 19 \quad \times 3$$

$$6x - 8y = 36$$

$$6x - 15y = 57 \quad \text{subtract}$$

$$7y = -21$$

$$y = -3$$

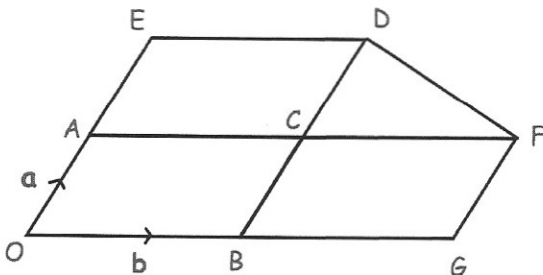
$$x = 2$$

$$y = -3$$

$$2x - (-15) = 19$$

$$2x + 15 = 19$$

$$2x = 4 \quad x = 2$$



B is the midpoint of OG.

A is the midpoint of OE.

$$\vec{OA} = \mathbf{a} \quad \text{and} \quad \vec{OB} = \mathbf{b}$$

Express in terms of a and b, the vector

$$\vec{OC}$$

$$\underline{\mathbf{a}} + \underline{\mathbf{b}}$$

Express in terms of a and b, the vector

$$\vec{OF}$$

$$\underline{\mathbf{a}} + 2\underline{\mathbf{b}}$$