



Factorise

$$x^2 + 2x - 8$$

$$(x+4)(x-2)$$

Factorise

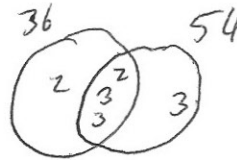
$$y^2 - 144$$

$$(y-12)(y+12)$$

Find the lowest common multiple (LCM) of 36 and 54.

$$36 = 2 \times 2 \times 3 \times 3$$

$$54 = 2 \times 3 \times 3 \times 3$$



$$\text{LCM} = 2 \times 2 \times 3 \times 3 \times 3$$

$$108$$

Solve the simultaneous equations

$$5x - y = 17 \quad \times 3$$

$$2x + 3y = 0$$

$$15x - 3y = 51$$

$$\text{add } 2x + 3y = 0$$

$$17x = 51$$

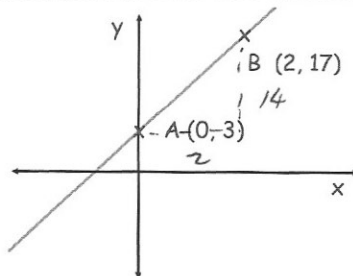
$$x = 3$$

$$15 - y = 17$$

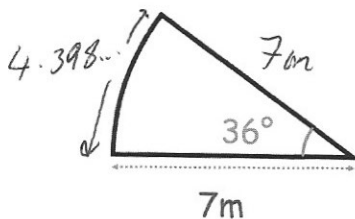
$$y = -2$$

Find the equation of the line passing through points A and B.

$$y = 7x + 3$$



$$\frac{14}{2} = 7$$



Calculate the perimeter.

$$\frac{1}{10} \times \pi \times 14 + 7 + 7$$

$$18.398 \text{ m}$$