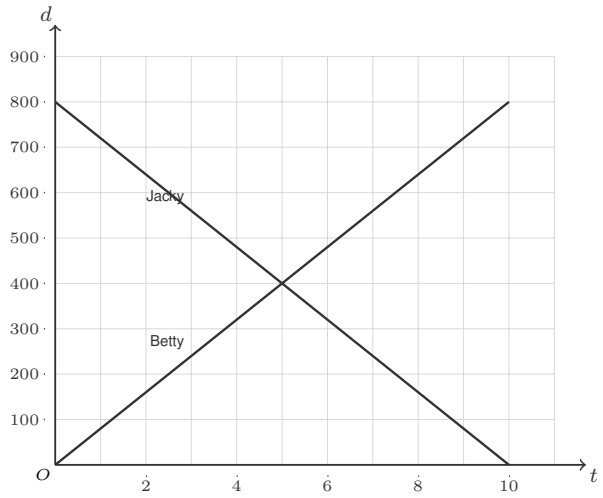
1 A track PQ is 800 m long. Betty walks from P towards Q. Jacky walks from Q towards P. Both set off at the same time.

t is the time in minutes and d is the distance from P in metres.



(a) Write down the coordinates of the crossing point (2)

(b) **When and where do they meet?** (2)

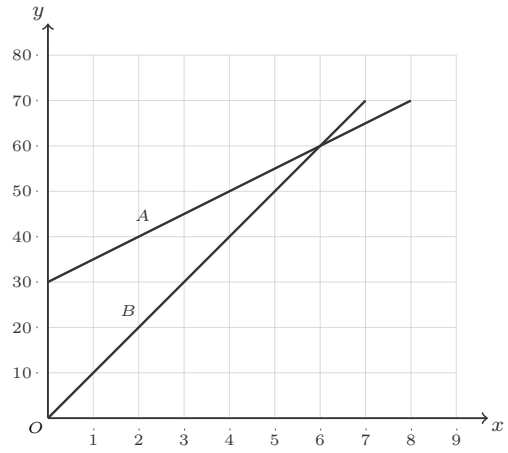
(c) Find Betty's speed (1)

(d) **Why does Jacky's graph slope downwards?** (2)

(7 marks)

2 Two firms hire out a generator. The graphs show the cost.

x is the number of days and y is the cost in thousands of shillings.



(a) Write down the coordinates of the crossing point (2)

(b) **Say what the crossing means. Do not say that anything meets.** (2)

(c) Which firm is cheaper for a 3 day hire? (1)

(d) Which firm is cheaper for a 7 day hire? (1)

(6 marks)

3 Two distance-time graphs cross at $(4, 25)$.

(a) **Write down what that tells you.** (2)

(b) Two cost graphs cross at $(15, 9000)$. **Write down what that tells you.** (2)

(4 marks)