

Non-Calculator

Q1.

- (a) Line M has the equation $3x + 2y = 7$

Circle the gradient of line M .

-3 $-\frac{3}{2}$ 3 $\frac{3}{2}$

(1)

- (b) Line N has the equation $y = 5 - \frac{3}{4}x$

Circle the gradient of a line that is **perpendicular** to line N .

$-\frac{4}{3}$ $\frac{3}{4}$ $\frac{4}{3}$ 3

(1)

(Total 2 marks)

Q2.

The equations of five straight lines are given below.

The line $y = 3x - 1$ is parallel to two of the lines.

Circle the equations of these **two** lines.

$y = 3x$ $y = -1$ $y = -3x - 1$ $y = 2x - 1$ $y = 3x + 1$

(Total 2 marks)

Calculator

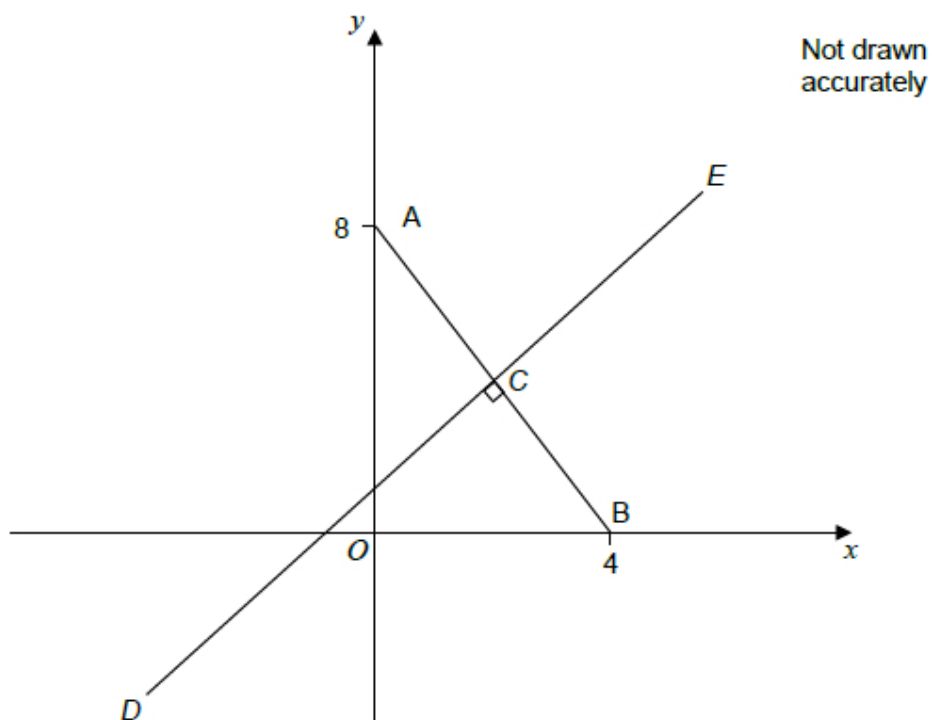
Q3.

ACB is a straight line.

A is the point $(0, 8)$, and B is the point $(4, 0)$

C is the midpoint of AB .

Line DCE is perpendicular to line ACB .



Work out the equation of line DCE .

Answer _____

(Total 5 marks)

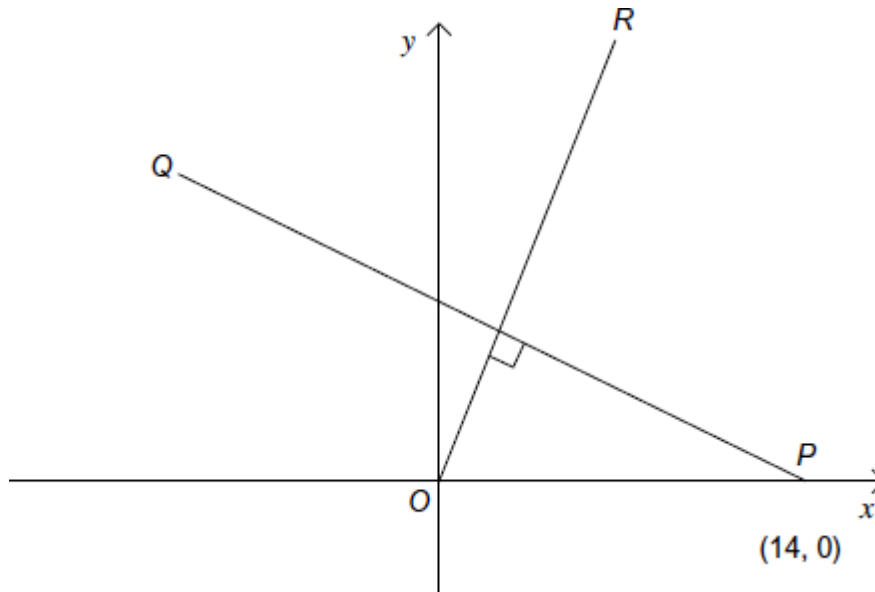
Q4.

The gradient of line OR is $\frac{7}{4}$

PQ is perpendicular to OR .

P is the point $(14, 0)$.

Not drawn accurately



Work out the equation of line PQ .

Give your answer in the form $ax + by = c$, where a , b and c are integers.

Answer _____

(Total 4 marks)