Non-Calculator

Q1.

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

Circle the gradient of line *M*.

-3

 $y = 5 - \frac{3}{4}x$

3

(1)

Line *N* has the equation (b)

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

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.

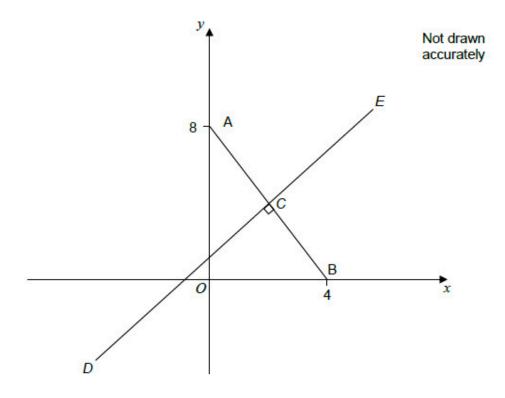
y = 3x y = -1 y = -3x - 1 y = 2x - 1 y = 3x + 1

(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
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(Total 5 marks)

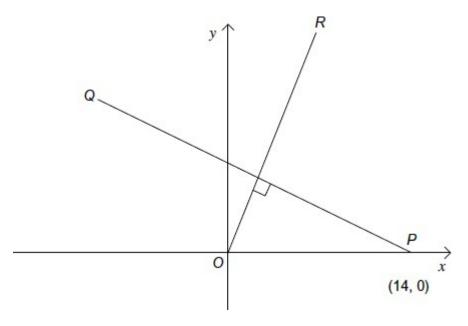
Q4.

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

PQ is perpendicular to OR. P is the point (14, 0).

Not drawn accurately

(Total 4 marks)



ork out the equation of line <i>PQ</i> .	
ve your answer in the form $ax + by = c$, where a , b and c are integers.	
	,
Answer	