

Question	Scheme	Marks	AOs
1(a)	$m = \frac{5 - (-2)}{7 - (-3)} \quad \text{or} \quad m = \frac{-2 - 5}{-3 - 7}$	M1	1.1b
	$m = \frac{7}{10}$	A1	1.1b
		(2)	
(b)	$y - 5 = \frac{7}{10}(x - 7)$	M1	1.1b
	$7x - 10y + 1 = 0$	A1	1.1b
		(2)	
(c)	$m_N = -\frac{10}{7}$	B1ft	1.1b
		(1)	

(5 marks)

Notes

(a)

M1: Correct method for the gradient

A1: Correct value (oe e.g. 0.7 but not $-\frac{7}{-10}$)

Correct answer implies both marks

(b)

M1: Correct straight line method using A or B and their m . For the $y = mx + c$ approach, must reach at least a value for c to score this mark.

A1: Correct equation in the required form (allow any integer multiple)

(c)

B1ft: For $m_N = -\frac{10}{7}$ or the negative reciprocal of their answer to part (a)