Higher 2022 Paper (
1.
$$5x + 2y = 7$$

$$2y = -5x + 7$$

$$y - 6 = \frac{3}{5}(x + 1)$$

(-1,56) y = -5x+ =

M=-5



$$5y-30 = 2(x+1)$$

 $5y-30 = 2x+2$

- 54-22=32

Marking Instructions for each question

Question		on	Generic scheme	Illustrative scheme	Max mark
1.			•¹ state gradient	\bullet^1 $-\frac{5}{2}$	3
			•² state perpendicular gradient	$\bullet^2 \frac{2}{5}$	
			•³ find equation of line	• $5y = 2x + 32$	

Notes:

- At •¹, ignore any errors in processing the constant term.
 At •¹ and •², ignore the appearance of 'x'.
 •³ is only available as a consequence of using a perpendicular gradient.
- 4. At •3, accept any arrangement of a candidate's equation where constant terms have been simplified.

Commonly Observed Responses:					
Candidate A A perpendicular grad $5x + 2y = 7$	ient has been clearly stated	Candidate B No communication for perpendicular gradient $5x + 2y = 7$ $y = -\frac{5}{2}x + \frac{7}{2}$			
$m_{\perp} = \frac{2}{5}$ $5y = 2x + 32$	•¹ ✓ •² ✓ •³ ✓	$m = \frac{2}{5}$ $5y = 2x + 32$ $\bullet^{1} \wedge \bullet^{2} \checkmark 1$			
Candidate C m = 5 $m_{\perp} = -\frac{1}{5}$ x + 5y = 29	•¹ x •² ✓ 1 •³ ✓ 1				