Question			Answer	Marks	AO	Guidance	
1			$m = \frac{17-5}{4-1}$ $(= 4)$	M1	1.1a	Attempt to find gradient of AB	Fraction must be correct way around, with coordinates used in a consistent order in the numerator and denominator
			$m_{perp} = -\frac{1}{4}$	M1	1.1a	Attempt gradient of perpendicular line	Use $m_1 m_2 = -1$ with their numerical gradient Could be implied by the gradient that they use in the equation of the line
			$y - 8 = -\frac{1}{4}(x - 2)$	M1	1.1a	Attempt equation of line through (2, 8), using their attempt at a perpendicular gradient	Either substitute into $y - y_1 = m(x - x_1)$ or use $y = mx + c$, as far as attempting c If not correct, then their gradient must be either the negative or the reciprocal of their original gradient eg if $m_1 = 4$, then $m_2 = -4$ or $\frac{1}{4}$ would be allowed
			$x + 4y = 34$	A1	1.1	Obtain $x + 4y = 34$	oe in required form ie with x and y terms on one side of the equation and a constant term on the other a, b and c do not have to be integers eg accept $\frac{1}{4}x + y = \frac{17}{2}$ (but not $\frac{34}{4}$)
				[4]			