a) Write the equation of the line perpendicular to $y = 2x - 1$, which passes through (4, 6).		b) Write the equation of the line perpendicular to $y = 4x - 1$, which passes through (12, 1).	
What is the gradient of the line?	The gradient of the given line is 2. The gradient of a line perpendicular to this line is the negative multiplicative inverse of $2, -\frac{1}{2}$.	What is the gradient of the line?	The gradient of the given line is 4. The gradient of a line perpendicular to this line is the negative multiplicative inverse of $4, -\frac{1}{4}$.
How can we begin to write an equation?	$y = -\frac{1}{2}x \dots \dots$	How can we begin to write an equation?	$y = -\frac{1}{4}x \dots \dots$
What is the relationship between the coordinates we know?	x = 4, y = 6 $6 = -\frac{1}{2} \times 4 \dots \dots$ 6 = -2 + 8	What is the relationship between the coordinates we know?	x = 12, y = 1 $1 = -\frac{1}{4} \times 12 \dots$
What is the equation of the line?	$y = -\frac{1}{2}x + 8$	What is the equation of the line?	
c) Write the equation of the line perpendicular to $y = \frac{1}{2}x + 3$, which passes through (3, 11).		d) Write the equation of the line through (9, 5).	perpendicular to $y = 3x - 5$, which passes
What is the gradient of the line?	The gradient of the given line is $\frac{1}{2}$. The gradient of a line perpendicular to this line is the negative multiplicative inverse of $\frac{1}{2}$, -2.		
How can we begin to write an equation?	$y = -2x \dots \dots$		
What is the relationship between the coordinates we know?			
What is the equation of the line?			
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