Algebra Revision				
(a)	(b)	(c)	(d)	
(i) Plot the graph of $y = x^3 - 3x + 3$ where $-2 \le x \le 2$	Solve $3x^2 - 5x - 1 = 0$ giving your answers to 3 significant figures	Find the equation of the line that is perpendicular to $y=-3x+1$ and passes through the point $(4,-2)$	y is directly proportional to cube of x . When $x = 5$, $y = 25$. (i) Find an equation for y if terms of x .	=
-6- -5- -4 -3 -2 -1	x = 1.85, x = -0.180	$y = \frac{1}{3}x - \frac{10}{3}$	$y = 0.2x^3$	
			(ii) Find the value of x who $y = 12.8$ $x = 4$	en
-3 2 -1 0 1 2 3	(e)	(g)	(h)	
(ii) By plotting a straight line on the graph, find approximate solutions to the equation $x^3 - 3x + 3 = 0.5x + 2$ $x = -2, x = 0.3, x = 1.7$	Find the gradient of the line segment joining $(1,-5)$ and $(-1,2)$	Write $2x^2 - 8x - 5$ in the form $a(x - b)^2 + c$	Use the graph to find a estimate of the gradient a point where $x=5$	
	$-\frac{7}{2}$	$2(x-2)^2-13$	<i>y</i> ♠ 6 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6	
	Simplify $\frac{5}{2x} + \frac{x+1}{x} - \frac{3}{5x}$		4 3 2	
	$\frac{10x + 29}{10x}$		7°1 1 2 3 4 5 6 7\ -1	8 X