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[9] 1. Determine whether the given function is even, odd or neither even nor odd. State its domain, and range and the interval on which it is increasing. **Include a sketch of the function.**

	<ul style="list-style-type: none"> • Domain • Range • Interval where increasing 	Odd/Even/Neither Justify by a calculation!!!	Sketch of a graph
$f(x) = 3x^2 + 5$			
$g(x) = \sqrt{x - 2}$			
$h(x) = -x^3$			

[3] 2. Sketch a graph of $y = -x + 3$. Rewrite the equation in standard form. Determine whether point $P (5,2)$ lies on the graph. **Justify your answer with a calculation.**

[4] 3. Sketch a graph of $2x + 4y = 16$. Find an equation of a line that is perpendicular to the given line and passes through point $P (-1, -6)$. Write the equation of the perpendicular line in slope-intercept form and in point-slope form.

[4] 4. Sketch a graph of $f(x) = \arcsin (x)$. State its domain, range, determine if the function is even, odd or neither. Determine the interval where the function is increasing and intervals where it is decreasing.