Name:_____ Hour: ____ **ALGEBRA 2 SEMESTER 1 FINAL REVIEW**

Unit 1: Function Family

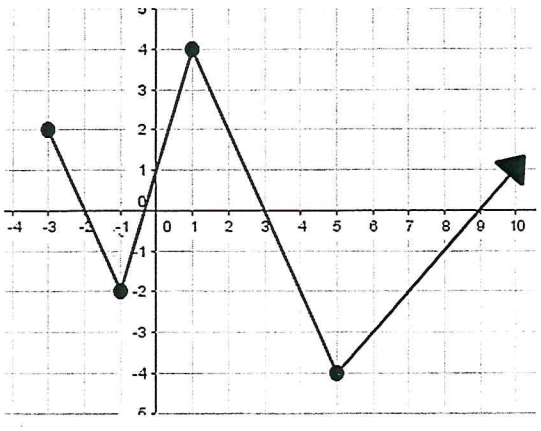
1) **NC** Draw a rough sketch of each of the parent functions

a) Linear Equation:	b) Absolute Value Equation:	c) Quadratic Equation:	d) Square Root Equation:
e) Cubic Equation:	f) Cube Root Equation:	g) Exponential Growth Equation:	h) Logarithmic Equation:

2) **NC** $g(x)= b(x-m)^2+ r$ What happens to the function when....

$\|b\|> 1$	$m> 0$	$r> 0$
$0< b< 1$	$m< 0$	$r< 0$
$b< 0$		

3) **NC** Find the requested information for the graph below. Make sure you use the correct parentheses and/or brackets.



Increasing: Decreasing:

Domain: Range: