Name	Date	Class
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Day #15 Homework

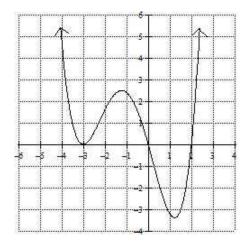
For exercises 1-3, determine on what intervals the given function is increasing or decreasing. Also, identify the coordinates of any relative extrema of the function. Show your work and justify your reasoning.

1. $f(x) = 2x^3 + 3x^2 - 12$

2.
$$g(x) = x^3 - 6x^2 + 15$$

3. $h(x) = (x+2)^2(x-1)^2$	3.	h(x) =	(x +	$(2)^{2}(x)$	– 1`
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4. Pictured to the right is the graph of f'(x). On what interval(s) is the graph of f(x) increasing or decreasing? Justify your reasoning.



5. Pictured to the right is the graph of f'(x). At what value(s) of x does the graph of f(x) have a relative maximum/minimum? Justify your reasoning.

