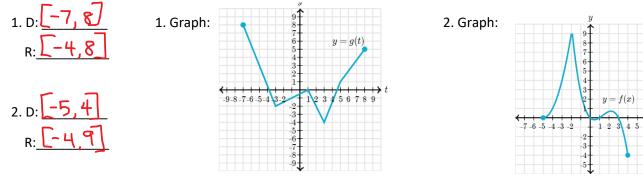
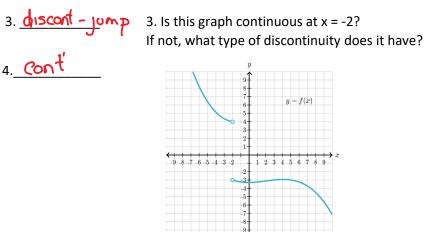
## Pre-Calculus Chapter 1 Review

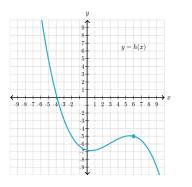
## Name

Determine the domain and range of the graphs. Write answers in interval notation.



Determine if there is a point of discontinuity and if it is removable or nonremovable or jump.

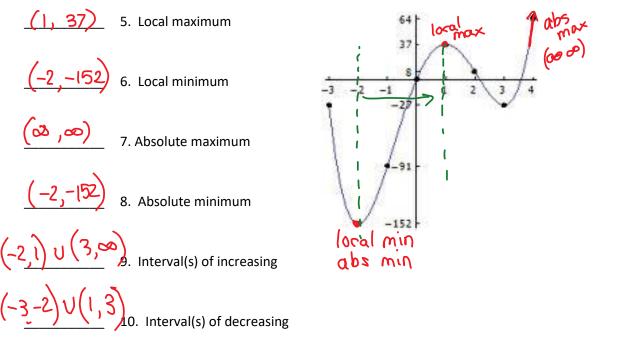




If not, what type of discontinuity does it have?

4. Is the graph continuous at x = 6

State the following, write the max/min in ordered pair form, write the increasing/decreasing in interval notation.



Building functions. Find the following for the given functions:  $f(x) = x^2 - 3x + 4$   $g(x) = 3x^2 + 5x - 7$  h(x) = 2x + 5

$$\frac{4\chi^{2} + 2\chi - 3}{4\chi^{2} + 2\chi - 3} = 11.(f + g)(x) \quad (\chi^{1} - 3\chi + 4) + (3\chi^{2} + 5\chi - 7)$$

$$\frac{-2\chi^{2} - 8\chi + 1!}{-2\chi^{2} - 8\chi + 1!} = 12.(f - g)(x) \quad (\chi^{2} - 3\chi + 4) + (3\chi^{2} + 5\chi - 7)$$

$$\frac{-2\chi^{2} - 5\chi^{2} - 7\chi + 20}{-\chi^{2} - 7\chi + 20} = 14.(fh)(x) \quad (\chi^{2} - 3\chi + 4)(2\chi + 5) = 2\chi^{3} + 5\chi^{2} - 6\chi^{2} - (5\chi + 6\chi + 20))$$

$$\frac{\chi^{2} - 3\chi + 4}{2\chi + 5} = 0$$

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$$f(x) = \frac{x+3}{4}$$
 and  $g(x) = 4x - 3$ 

$$f(g(x)) = (\underbrace{4x-3}_{4}) + 3 = \underbrace{4x}_{4} = X$$