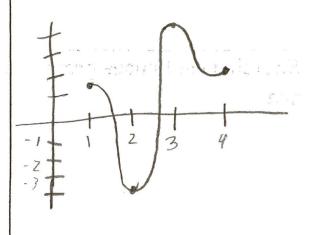
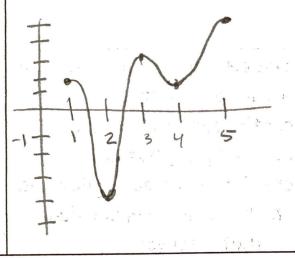
Sketch a graph with that meets the following conditions:

Abs Min at x=2 Abs Max at x=3 Local Min at x=4



Abs max at x=5, abs min at x=2, local max at x=3, local min at x=2 & 4



Find the critical numbers for f(x): (see video for #1) 1. $f(x)=x^3+6x^2-15x$ 

Math2413 Calc1

Chapter 4: Function Analysis

Name:

Exit Ticket Upload:

Find the abs min/max using the candidates test:

7. $f(x) = 2x^3 - 3x^2 - 12x + 1$  on [-2,3]

$$() + (x) = (0x^{2} - (0x - 12)) + (1) = 2(-2)^{3} - 3(-2)^{2} - 12(-2) + 1 = 2$$

$$= (0(x^{2} - x - 6)) + (1) = (-10)^{3} - 3(-2)^{2} - 12(-2) + 1 = 2$$

$$= (0(x - 3)(x + 2)) + (-10)^{3} - (-10)^{3} - 3(-2)^{2} - 12(-2) + 1 = 2$$

$$= (-10)^{3} - 3(-2)^{2} - 12(-2) + 1 = 2$$

$$= (-10)^{3} - 3(-2)^{2} - 12(-2) + 1 = 2$$

$$f(3) = \frac{2(3)^3 - 3(3)^2 - 12(3) + 1}{2(27) - 27 - 36 + 1} = \frac{-3}{8}$$

alos mm(3, -8)

abs max (-2,-3)