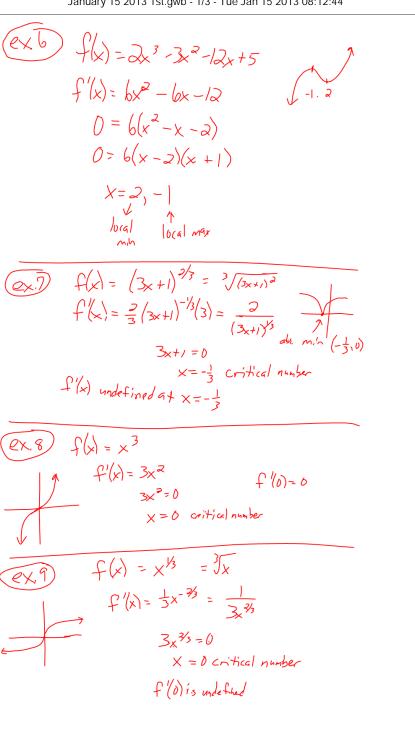
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$$f(x) = \frac{2x^{2}}{x+2} \quad) \times \neq -2$$

$$f'(x) = \frac{4x(x+2) - 2x^{2}(1)}{(x+2)^{2}} = \frac{2x^{2} + 8x}{(x+2)^{2}}$$

$$f'(x) = \frac{2x(x+4)}{(x+2)^{2}}$$

$$0 = 2x(x+4) \quad \times +2 = 0$$

$$crit. \#s \times = 0, -4 \quad \times = 2$$

$$x = -2 \text{ not in the diagins so no critical } \#so no critical } \#so no critical } \#so$$

$$f(x) = 3x^{3} - 3x^{2} - 12x + 5 \quad \text{a.} \quad [-2,4]$$

$$f'(x) = 6x^{2} - 6x - 10$$

$$6x^{2} - 6x - 10 = 0$$

$$6(x^{2} - x - 2) = 0$$

$$6(x - 2)(x + 1) = 0$$

$$cr; + \# c + x = 2, -1$$

$$f(2) = -15 \text{ ds. min} \quad f(-2) = 1$$

$$f(-1) = 12 \qquad f(4) = 37 \text{ abs. max.}$$

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f (4) = 11.3137 abs. max