Calculus Exercise Week!

Chapter I review

y-intercept:
$$X=0 \Rightarrow f(0) = 0^3+2\times0^2-2\times0=0$$

$$3290 \text{ Dmax}(f) = \left\{ \frac{1}{x} \ge -\frac{3}{2} \right\}$$

$$f^{1}(x) = \frac{-3 + \sqrt{4x - 7}}{2}$$

(2)
$$\int_{-1}^{1} (x) = \frac{1}{3} = \frac{1}{3} = \frac{1}{3}$$

Section 2.2:

Section 2.3

93.
$$\frac{x^{2}-1b}{x-4} = \lim_{x \to 4} \frac{(x-4)(x+4)}{x-4} = 8$$

95.
$$\frac{1}{2x-12} = \frac{1}{x+b} \frac{3(x-b)}{2(x-b)} = \frac{3}{2}$$

97. $\frac{1}{2x-12} = \frac{1}{x+b} \frac{3(x-b)}{2(x-b)} = \frac{3}{2}$

103. $\frac{1}{x+b} = \frac{1}{x^2+1} \frac{(3x-1)(x+1)}{x^2+1} = \frac{1}{x+2} = \frac$