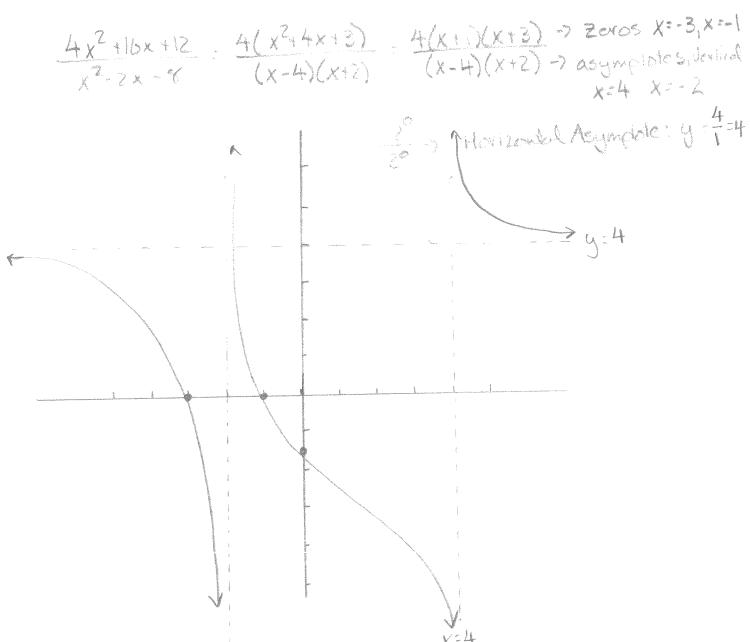
Math 111: Final Review 6b

1. Graph the function given by: $f(x) = \frac{4x^2 + 16x + 12}{x^2 - 2x - 8}$

Graph each asymptote with a dashed line, and give the equation for each asymptote. Show all calculations used to find zeros and asymptotes



2. Graph the function given by: $f(x) = \frac{2x^3 + 6x^2 - 20x}{5x^3 - 5x^2 - 60x}$

Graph each asymptote with a dashed line, and give the equation for each asymptote. Show all calculations used to find zeros and asymptotes

$$\frac{2x^{3}+6x^{2}-20x}{5x^{3}-6x^{2}-60x} \cdot \frac{2x(x^{2}+3x-10)}{5x(x^{2}-x-12)} = \frac{2x(x+5)(x-2)}{5x(x-4)(x+3)}$$

Zeros: X-0, x=0, x=2

Horizontal asymptote: 30 = 2 = 5

