Math 146 extra problems:

1. Given that the function f(x) is shown, graph each of the following:





Solve each equation for x:

2.
$$\frac{x-4}{x^2+5x+6} = \frac{x-2}{x^2+4x+3} - \frac{5}{x^2+3x+2}$$

3.
$$\frac{3x}{x^2+5x+6} + \frac{2}{x^2+x-2} = \frac{5x}{x^2+2x-3}$$

4.
$$\frac{5}{x^2-9} + \frac{x-1}{x^2+3x} = \frac{x+2}{x^2-3x}$$