

### 5-3 Graphing Rational Functions Worksheet

Complete the chart below for each rational function. Write NONE where it applies. Must show work!

Given Function	Reduced Function (rewrite if already done)	Vertical Asymptotes	Horizontal Asymptotes	x-intercepts (x, y)	y-intercepts (x, y)	Hole (x, y)
1. $f(x) = \frac{2(x-3)}{(x+4)(x-3)}$						
2. $f(x) = \frac{x+2}{x^2-x-2}$						
3. $f(x) = \frac{4x-8}{x+2}$						
4. $f(x) = \frac{x^2+3x-10}{x-2}$						
5. $f(x) = \frac{2x^2+11x+12}{2x^2+x-3}$						

Graph each rational function from the chart above. Remember to draw the asymptotes with a colored pen.

