Graphing Rational Equations: Let's Put It All Together!

Use your previous notes to fill in the columns. Then sketch the graph. If you're having trouble, feel free to use a calculator/Desmos but **BE CAREFUL**, these graphs will not reveal the discontinuities of the graph!

Rational Function	Points of Discontinuity	Holes -Where do factors Cancel	Vertical Asymptotes -Where do factors Cancel	Horizontal Asymptotes (B-O-S-T-O-N)	Sketch the graph
$f(x) = \dfrac{x + 3}{(x - 2)(x + 3)}$ $x \neq$ _____					
$f(x) = \dfrac{2x^2 + 4x}{x + 2}$ $x \neq$ _____					
$f(x) = \dfrac{2x}{x + 5}$ $x \neq$ _____					
$f(x) = \dfrac{x}{x - 3}$ $x \neq$ _____					
$f(x) = \dfrac{x^2 - 3x - 28}{x + 4}$ $x \neq$ _____					
$f(x) = \dfrac{(x - 2)(x + 1)}{x(x - 5)(x + 1)}$ $x \neq$ _____					