

Functions F9 – More Rational Functions

State the values of any vertical asymptotes, horizontal asymptotes, slant asymptotes and holes in the graph of the equation of the rational function.

1. $f(x) = \frac{3x}{x^2+3x+2}$ VA: _____ HA: _____ SA: _____ Holes: _____

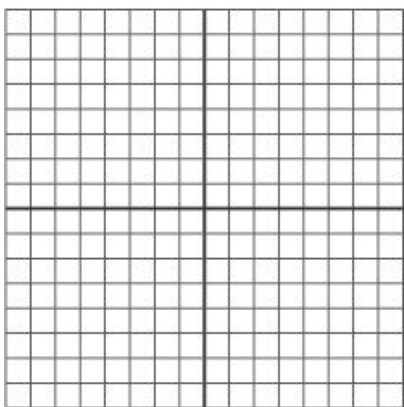
2. $f(x) = \frac{x+4}{x^2+3x-4}$ VA: _____ HA: _____ SA: _____ Holes: _____

3. $f(x) = \frac{x^2-16}{x^2-2x-8}$ VA: _____ HA: _____ SA: _____ Holes: _____

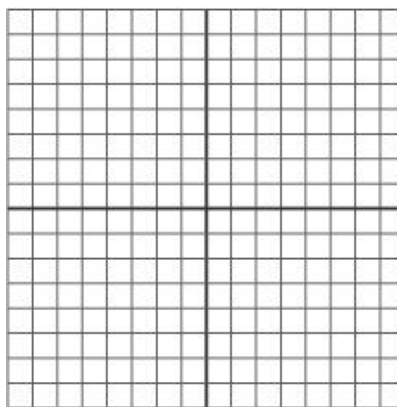
4. $f(x) = \frac{x^2+2x+1}{x+5}$ VA: _____ HA: _____ SA: _____ Holes: _____

Graph the following functions:

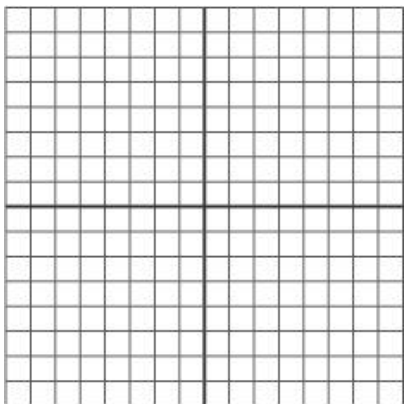
5. $f(x) = \frac{x+2}{x^2-3x-10}$



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



7. $f(x) = \frac{x^2+2x+1}{x+1}$



8. $f(x) = \frac{x^2}{x+1}$

