

### Graphing Rational Functions Quiz Review

1.)  $y = \frac{-4}{x-2}$

x-intercept(s): \_\_\_\_\_

y-intercept: \_\_\_\_\_

VA: \_\_\_\_\_

HA: \_\_\_\_\_

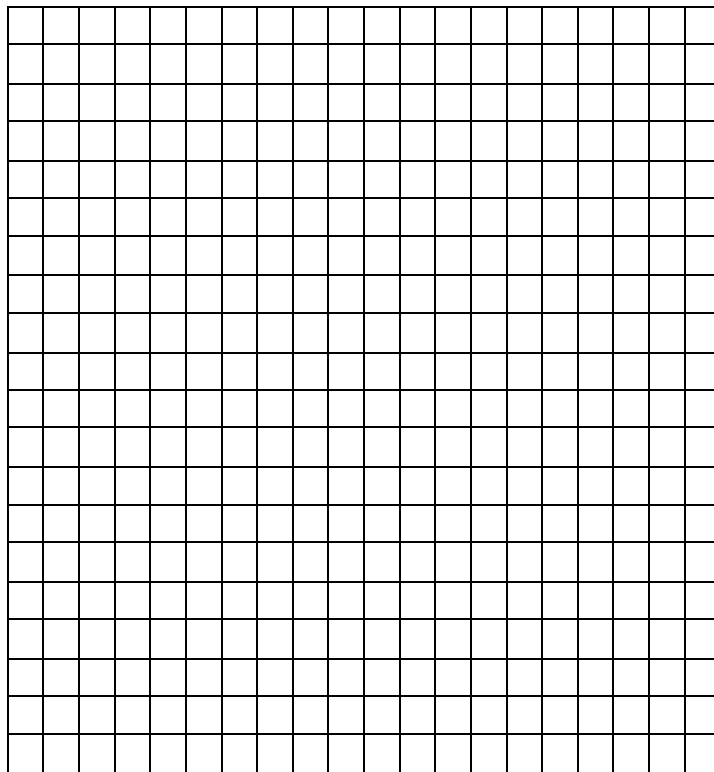
domain: \_\_\_\_\_

range: \_\_\_\_\_

End Behavior:

as  $x \rightarrow \infty, f(x) \rightarrow$ : \_\_\_\_\_

as  $x \rightarrow -\infty, f(x) \rightarrow$ : \_\_\_\_\_



2.)  $y = \frac{3}{(x+1)(x-1)}$

x-intercept(s): \_\_\_\_\_

y-intercept: \_\_\_\_\_

VA: \_\_\_\_\_

HA: \_\_\_\_\_

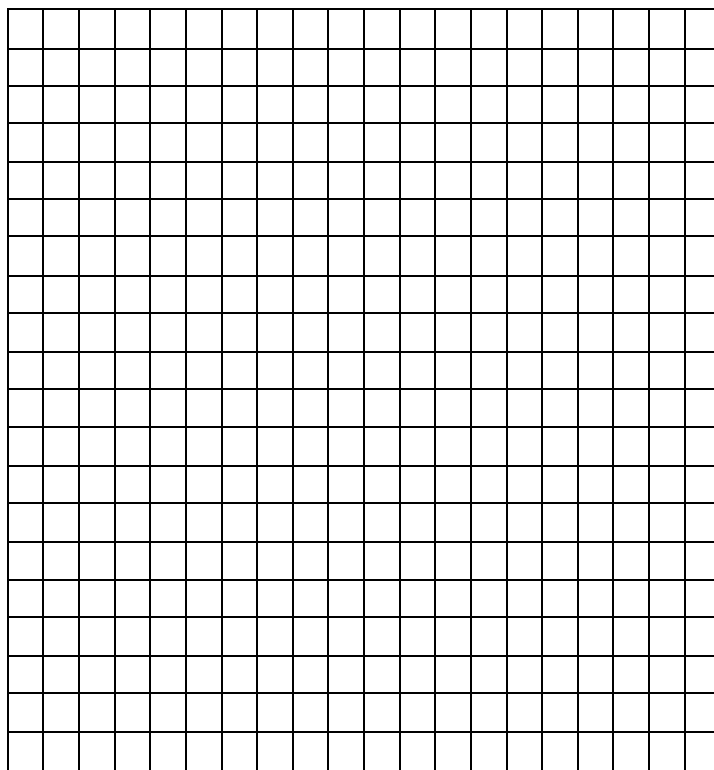
domain: \_\_\_\_\_

range: \_\_\_\_\_

End Behavior:

as  $x \rightarrow \infty, f(x) \rightarrow$ : \_\_\_\_\_

as  $x \rightarrow -\infty, f(x) \rightarrow$ : \_\_\_\_\_



$$3.) y = \frac{x}{x+3}$$

x-intercept(s): \_\_\_\_\_

y-intercept: \_\_\_\_\_

VA: \_\_\_\_\_

HA: \_\_\_\_\_

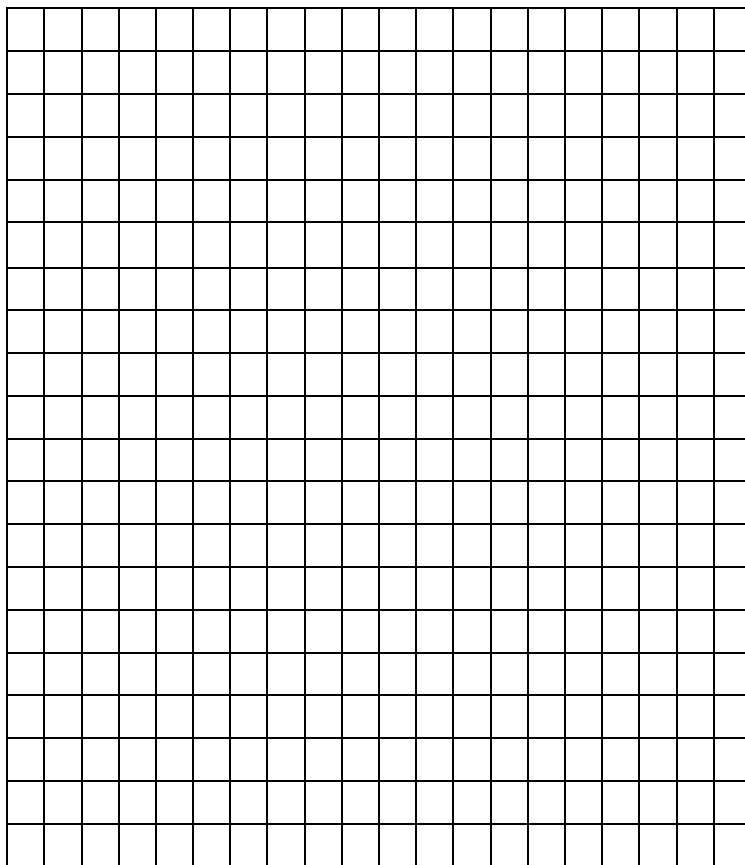
domain: \_\_\_\_\_

range: \_\_\_\_\_

End Behavior:

as  $x \rightarrow \infty, f(x) \rightarrow$ : \_\_\_\_\_

as  $x \rightarrow -\infty, f(x) \rightarrow$ : \_\_\_\_\_



$$4.) y = \frac{4x+3}{x-2}$$

x-intercept(s): \_\_\_\_\_

y-intercept: \_\_\_\_\_

VA: \_\_\_\_\_

HA: \_\_\_\_\_

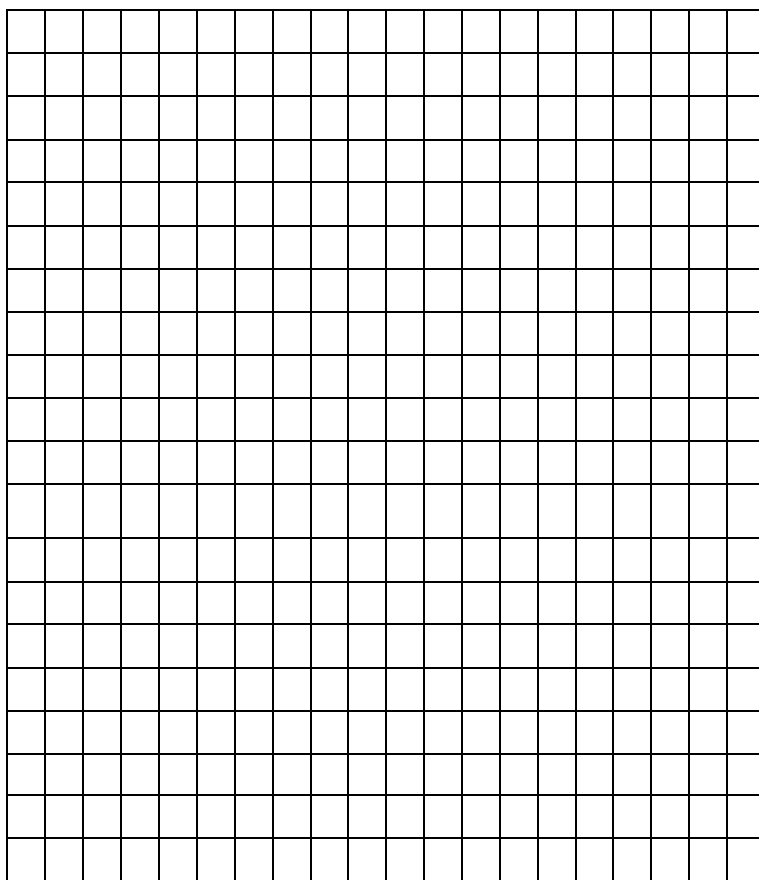
domain: \_\_\_\_\_

range: \_\_\_\_\_

End Behavior:

as  $x \rightarrow \infty, f(x) \rightarrow$ : \_\_\_\_\_

as  $x \rightarrow -\infty, f(x) \rightarrow$ : \_\_\_\_\_



$$5.) y = \frac{3x-1}{x+2}$$

x-intercept(s) : \_\_\_\_\_

y-intercept: \_\_\_\_\_

VA: \_\_\_\_\_

HA: \_\_\_\_\_

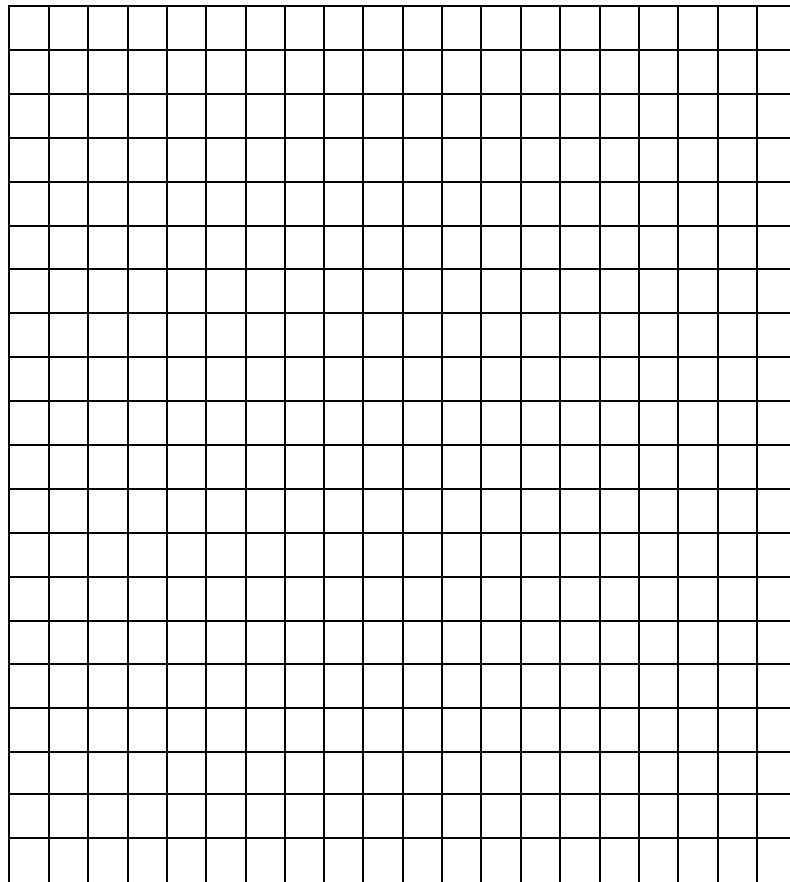
domain: \_\_\_\_\_

range: \_\_\_\_\_

End Behavior:

as  $x \rightarrow \infty, f(x) \rightarrow$ : \_\_\_\_\_

as  $x \rightarrow -\infty, f(x) \rightarrow$ : \_\_\_\_\_



$$6.) y = \frac{x^2 - 2x}{x^2 - 2x - 3}$$

x-intercept(s): \_\_\_\_\_

y-intercept: \_\_\_\_\_

VA: \_\_\_\_\_

HA: \_\_\_\_\_

domain: \_\_\_\_\_

range: \_\_\_\_\_

End Behavior:

as  $x \rightarrow \infty, f(x) \rightarrow$ : \_\_\_\_\_

as  $x \rightarrow -\infty, f(x) \rightarrow$ : \_\_\_\_\_

