

- Graph $f(x) = \frac{3x}{x-2}$.
 - Use the standard window.
 - Use the decimal window.
 - Graph in dotted mode, using the standard window.
- Consider your answers in exercise #1.
 - How do the three graphs compare?
 - Which best represents the graph of $f(x)$?
 - Find the domain of $f(x)$?
- Graph $g(x) = \frac{1}{x} + 2$.
 - Find the domain of $g(x)$.
 - Solve $\frac{1}{x} + 2 = 0$, graphically or numerically.
- Graph $h(x) = \frac{x+2}{x^2-1}$.
 - Find the domain of $h(x)$.
 - Find the zero(s) of $h(x)$.
- Add $\frac{1}{x-2} + \frac{3}{x-1}$.
 - Explain how to verify your answer numerically
 - Explain how to verify your answer graphically.
- For each data set, determine whether it represents direct proportion, inverse proportion, or neither. If the data set represents direct or inverse proportion, determine a function that models the data.

A.

x	y
2	16
5	40
10	80
20	160

B.

x	y
2	-3
5	-24
10	-99
20	-224

C.

x	y
2	2.5
5	1
10	0.5
20	0.25