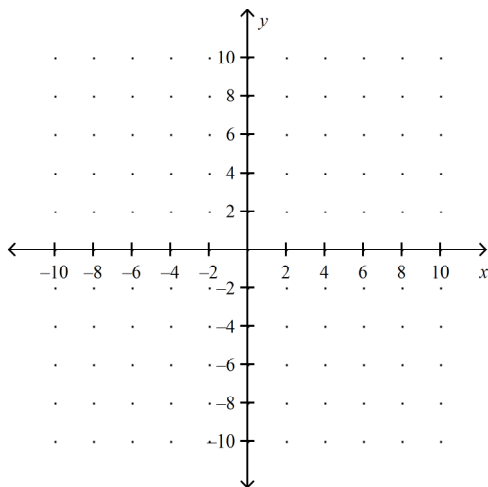




8. Sketch the graph of the function. Include any vertical or horizontal asymptotes.  $f(x) = \frac{3x+2}{x+2}$



9. You are selling T-shirts for a fundraiser. The cost of making the designs and buying blank T-shirts is \$425. In addition to these one time charges, the cost of printing each T-shirt is \$1.75. Let  $x$  represent the number of T-shirts that are printed. Write a model that represents the average cost per T-shirt. Then graph the model. Be sure to number and label your axes.

10. If they exist, identify the x-intercept(s) and the vertical and horizontal asymptote(s) of the graph of the function. Then sketch the graph.

a.  $f(x) = \frac{2x}{x^2 - 1}$

x-int: \_\_\_\_\_

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

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

b.  $f(x) = \frac{x^2 + 11x + 18}{2x + 1}$

x-int: \_\_\_\_\_

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

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

c.  $f(x) = \frac{x^2 - 5x - 36}{3x}$

x-int: \_\_\_\_\_

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

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