Find the VA and HA of the following:

1. $\frac{x^2+4x-5}{x^2+9x+20}$

VA_____

HA_____

2. $\frac{x^2-9}{x+3}$

VA_____

HA_____

3. $\frac{x+6}{2x^2+9x-18}$

VA_____

HA_____

Graph each equation and fill in all the blanks.

Graph the following rational function. Be sure to include all intercepts, holes, and asymptotes on the graph.

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

VA_____

Holes_____

x-int_____

y-int_____

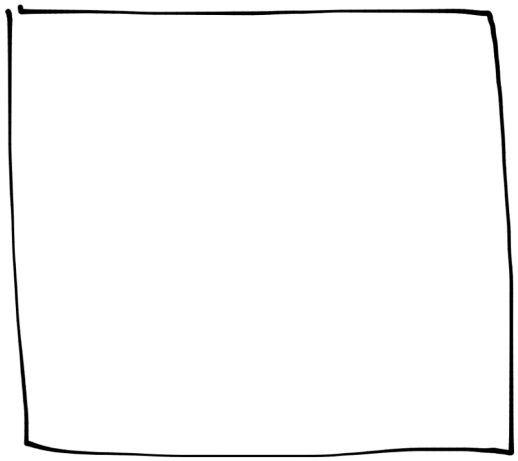
HA_____

Xmin = _____

Xmax = _____

Ymin = _____

Ymax = _____



5. $y=\frac{x^2-9}{x-3}$

VA_____

Holes_____

x-int_____

y-int_____

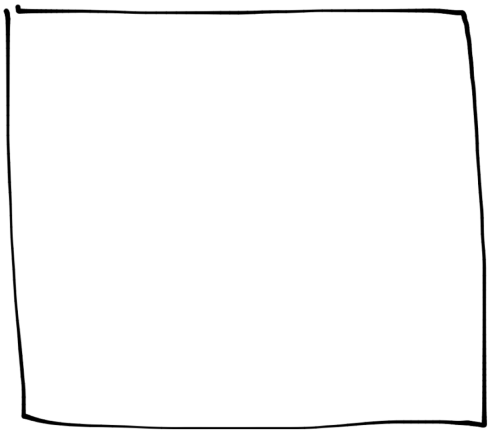
HA_____

Xmin = _____

Xmax = _____

Ymin = _____

Ymax = _____



Graph the following rational function. Be sure to include all intercepts, holes, and asymptotes on the graph.

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

VA_____

Holes_____

x-int_____

y-int_____

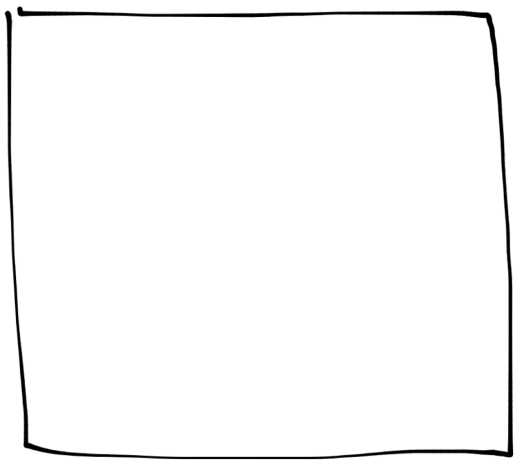
HA_____

Xmin = _____

Xmax = _____

Ymin = _____

Ymax = _____



7. $y = \dfrac{x + 1}{(x - 3)^2}$

VA_____

Holes_____

x-int_____

y-int_____

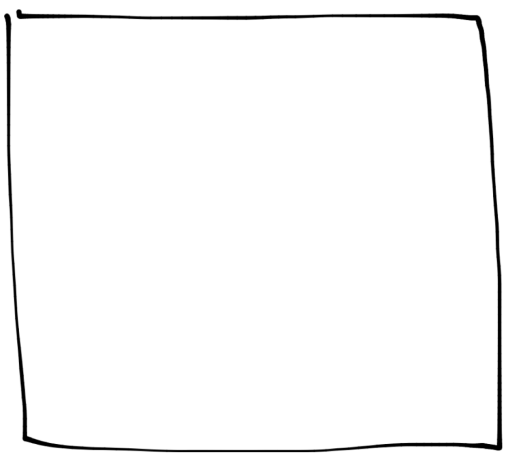
HA_____

Xmin = _____

Xmax = _____

Ymin = _____

Ymax = _____



8. $y = \dfrac{x - 4}{-4x - 16}$

VA_____

Holes_____

x-int_____

y-int_____

HA_____

Xmin = _____

Xmax = _____

Ymin = _____

Ymax = _____