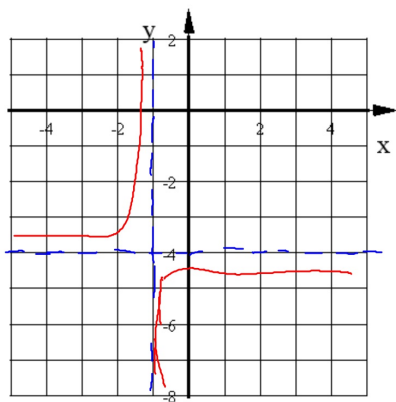
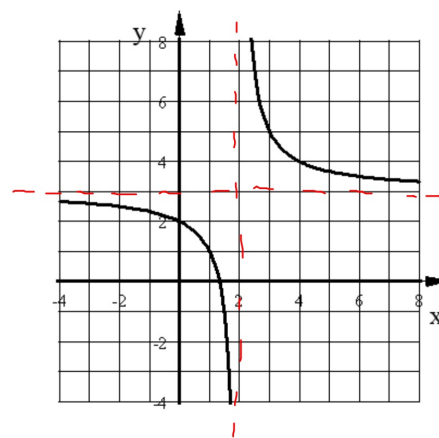


1. Graph this reciprocal function: $y = \frac{-0.15}{x+1} - 4$



2. Write the equation of this translation of the function $y = \frac{2}{x}$



$$\frac{2}{x-2} + 3$$

3. State the points of discontinuity and classify them as holes or vertical asymptotes.

$$y = \frac{x^2 + x - 42}{2x^3 - 4x^2 - 48x} \quad 2x(x^2 - 2x - 24)$$

$$\frac{(x+7)(x-6)}{2x(x-6)(x+4)}$$

$$\begin{aligned} \text{VA } x &= 0 \\ \text{Hole } x &= 6 \\ \text{VA } x &= -4 \end{aligned}$$

4. Write the equation of the horizontal asymptote of each rational function, if any.

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

NO HA

b. $y = \frac{8x + 7}{4x^2 - 1}$

$$y = 0$$

c. $y = \frac{3x^2 + 10x - 12}{6x^2 - 5x - 3}$

$$y = \frac{1}{2}$$