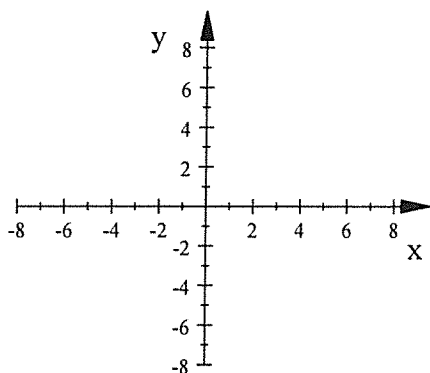
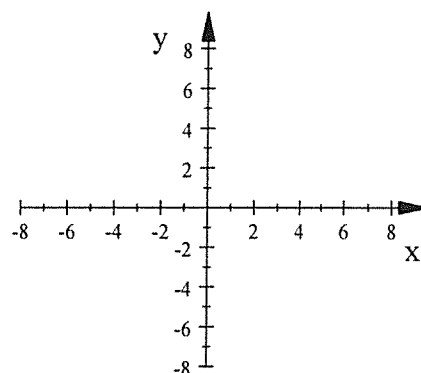


Sketch the asymptotes (dashed lines) labeled with their equations and the branches for the graph of each equation.

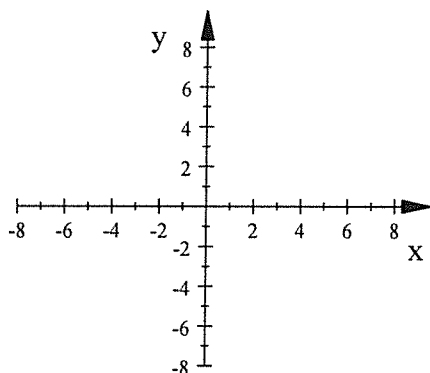
1. $y = \frac{1}{x} - 3$



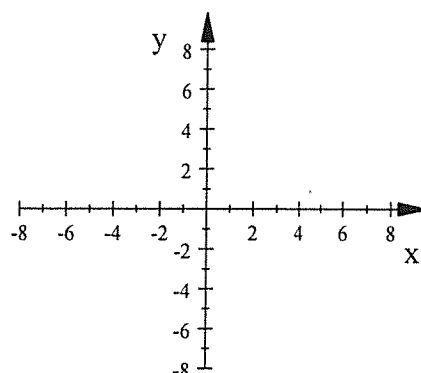
2. $y = \frac{-2}{x-4}$



3. $y = \frac{-10}{x+3} - 2$



4. $y = \frac{0.2}{x} + 4$



Write an equation for the transformation of $y = \frac{1}{x}$ that has the given asymptotes and whose branches are in the given quadrants.

5. Asymptotes: $x = 5, y = -4$
Branches are in Quadrants II and IV

6. Asymptotes: $x = 0, y = 7$
Branches are in Quadrants I and III

EQ:

EQ:

Write the equation of each graph which is a transformation of $y = \frac{1}{x}$

7. EQ:

8. EQ:

