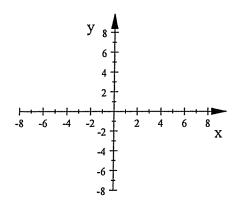
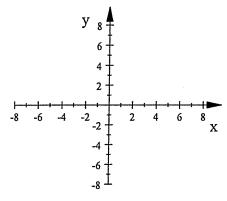
Sketch the asymptotes (dashed lines) and the branches for the graph of each equation. Write the equations of the asymptotes next to each one.

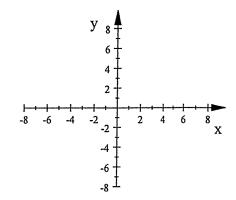
1.
$$y = \frac{1}{x} - 3$$



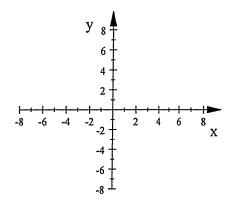
3.
$$y = \frac{-25}{x+3} - 2$$



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



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.

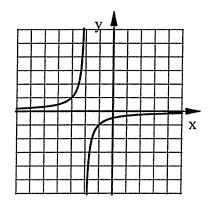
5. Asymptotes: x = 5, y = -4Branches are in Quadrants II and IV 6. Asymptotes: x = 0, y = 7Branches are in Quadrants I and III

EQ:

EQ:

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

7. EQ:



8. EQ:

