

**PROBLEM SET 9-2**  
(Graphing Inverse Variations)

**Sketch the asymptotes and the graph of each equation.**

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

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

3.  $y = \frac{1}{x-2} + 5$

4.  $y = \frac{1}{x-3} + 4$

5.  $y = \frac{2}{x+6} - 1$

6.  $y = -\frac{10}{x+1} - 8$

7.  $y = \frac{1}{x} + 2$

8.  $y = -\frac{8}{x+5} - 6$