

**QUICK REVIEW #1 – LIMITS USING A GRAPH**

Name \_\_\_\_\_

Date \_\_\_\_\_ Hour \_\_\_\_\_

**1. Use the graph to find the limit, if it exists:**

\_\_\_\_\_ a.  $\lim_{x \rightarrow 0} \frac{x^2 - 2x}{x}$

\_\_\_\_\_ b.  $\lim_{x \rightarrow -1} \frac{x^2 - 2x}{x}$

\_\_\_\_\_ c.  $\lim_{x \rightarrow 3} \frac{x^2 - 9}{x - 3}$

**2. Find the limit of the following:**

\_\_\_\_\_ a.  $\lim_{x \rightarrow 8} x^2 - 5x - 11$

\_\_\_\_\_ b.  $\lim_{x \rightarrow 5} \frac{x+3}{x^2-15}$