Quiz 4

Name: _____

1. Evaluate the following limit by using algebra.

$$\lim_{h \to 0} \frac{(9+h)^2 - 81}{h}$$

$$
\begin{aligned}
&= \lim_{h \to 0} \frac{81 + 18h + h^2 - 81}{h} \\
&= \lim_{h \to 0} \frac{18h + h^2}{h} \\
&= \lim_{h \to 0} (18 + h) = 18.
\end{aligned}
$$