

67. If $\lim_{x \rightarrow 2} \frac{f(x) - 5}{x - 2} = 3$, then

$$\lim_{x \rightarrow 2} (f(x) - 5) = \lim_{x \rightarrow 2} \frac{f(x) - 5}{x - 2} (x - 2) = 3(2 - 2) = 0.$$

Thus $\lim_{x \rightarrow 2} f(x) = 5$.