

$$27. \lim_{x \rightarrow 3} \frac{x^2 - 9}{x^2 - 5x + 6} = \left\{ \frac{0}{0} \right\} = \cancel{\frac{(x-3)(x+3)}{(x-3)(x-2)}} = \left| \frac{x+3}{x-2} = \frac{6}{1} = 6. \right.$$