

8. $\lim_{x \rightarrow 2} \frac{x^2 - 4}{x^2 - 5x + 6} = \lim_{x \rightarrow 2} \frac{(x - 2)(x + 2)}{(x - 2)(x - 3)} = \lim_{x \rightarrow 2} \frac{x + 2}{x - 3} = -4$