Because $x^2 - 5x + 6 = (x - 2)(x - 3)$, this is the least common denominator.

$$\frac{3x - 2}{x - 2} - \frac{x - 1}{x^2 - 5x + 6} = \frac{(3x - 2)(x - 3)}{(x - 2)(x - 3)} - \frac{x - 1}{(x - 2)(x - 3)} =$$

$$\frac{3x^2 - 11x + 6}{x^2 - 5x + 6} - \frac{(x - 1)}{x^2 - 5x + 6}$$

$$= \frac{3x^2 - 11x + 6 - x + 1}{x^2 - 5x + 6} = \frac{3x^2 - 12x + 7}{x^2 - 5x + 6}$$