

[illegible]

$$\int \frac{\sqrt{x^2 - 6x + 9}}{x^2 - 5x + 6} dx$$

$$\int \frac{A}{x} dx + \int \frac{B}{x-2} dx + \int \frac{C}{x-1} dx$$

$$\int \frac{2x}{x} dx + \int \frac{4}{x-2} dx + \int \frac{3}{x-1} dx$$

$$2 \int \frac{1}{x} dx + 4 \int \frac{1}{x-2} dx + 3 \int \frac{1}{x-1} dx \quad \begin{matrix} (x-2)' = 1 \\ (x-1)' = 1 \end{matrix}$$

$$2 \ln |x| + 4 \ln |x-2| + 3 \ln |x-1| + C$$