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$$\int \frac{2x+3}{(x-2)(x+5)} dx = x^2 + 17x + 49 \ln(x-2) + C$$

$$\int \frac{2x+3}{x-2} (x+5) dx$$

$$(x+5) \cdot \frac{2x+3}{x-2} \rightarrow 2x+17 + \frac{49}{x-2}$$

$$\int (2x+17) dx = x^2 + 17x$$

$$\int \frac{49}{x-2} dx = 49 \ln(x-2) + C \rightarrow x^2 + 17x + 49 \ln(x-2) + C$$