

$$y' = \frac{3}{2x+1}$$

Integrate both sides:

$$\Rightarrow y = \int \frac{3}{2x+1} dx$$

$$= 3 \left(\frac{1}{2} \int \frac{2}{2x+1} dx \right)$$

$$y = \frac{3}{2} \ln|2x+1| + C$$