

2.54
→ 4

$$\textcircled{I} \int \frac{x+1}{3x+2} dx = \int \frac{\frac{1}{3}(3x+2) + \frac{1}{3}}{3x+2} dx = \int \left(\frac{1}{3} + \frac{1}{3} \cdot \frac{1}{3x+2} \right) dx = \frac{1}{3}x + \frac{1}{9} \ln|3x+2| + C$$