

2.63  
4 (4)

$$\int \frac{x+1}{2x-3} dx = \int \frac{\frac{1}{2}(2x-3) + \frac{5}{2}}{2x-3} dx = \int \frac{1}{2} dx + \frac{5}{2} \int \frac{1}{2x-3} dx = \frac{1}{2}x + \frac{5}{4} \ln|2x-3| + C$$