

2.58
4

$$\int \frac{(x+2)(x-3)}{x\sqrt{x}} dx = \int \frac{x^2 - x - 6}{x^{1.5}} dx =$$

$$\int (x^{0.5} - x^{-0.5} - 6x^{-1.5}) dx = \frac{2x^{1.5}}{3} - 2x^{0.5} + 12x^{-0.5} + C$$

$$= \frac{2x\sqrt{x}}{3} - 2\sqrt{x} + \frac{12}{\sqrt{x}} + C$$