

$$\begin{aligned}\int \frac{7x^3 - 8\sqrt{x}}{x} dx &= \int \left(7\frac{x^3}{x} - 8\frac{x^{1/2}}{x}\right) dx = \int (7x^2 - 8x^{-1/2}) dx \\ &= 7\frac{x^3}{3} - 8\frac{x^{1/2}}{1/2} + C = \frac{7}{3}x^3 - 16\sqrt{x} + C\end{aligned}$$