Name: _____

Quick Hit 5.1 (1)

1. Compute the following

(a) $\int x^{456}\,dx \;=\; \dfrac{x^{457}}{457} \;+\; C$

(b) $\int e^{3x}\,dx \;=\; \dfrac{1}{3}\,e^{3x} \;+\; C$

(c) $\int 3x^2 + 2x\,dx \;=\; x^3 + x^2 \;+\; C$

(d) $\int e^{2x} - 12x^{10} + 100\,dx \;=\; \dfrac{1}{2}e^{2x} - \dfrac{12x^{11}}{11} + 100x + C$