## MA 126 — Fall 2016 — Prof. Clontz — Quiz

Name: \_

3. Find  $\int 3t^5(t^3+3)^2 dt$ .

A. 
$$\frac{1}{4}t^4 - 4t^3 + C$$

B. 
$$\frac{1}{4}(t^3+3)^4-(t^3+3)^3+C$$

C. 
$$\frac{1}{2}(t^3+3)^2+4(t^3+3)^3+C$$

- D. None of these.
- 4. Evaluate  $\int_0^1 x^2 e^{2x^3} dx$ .

A. 
$$\frac{1}{6}e^2 - \frac{1}{6}$$

B. 
$$\frac{1}{4}e^2 - \frac{1}{4}e$$

C. 
$$\frac{1}{3}e - \frac{1}{3}$$

D. None of these.