

CH. 5 AB Integral Review WS

Name _____

1) $\int e^{15x} dx =$

2) $\int 13^{8x} dx =$

3) $\int x \cdot e^{4x^2} dx =$

4) $\int 2x^2 \cdot 10^{-4x^3} dx =$

5) $\int \frac{17}{x} dx =$

6) $\int \frac{x^2}{x^3 - 51} dx =$

7) $\int \left(\frac{x}{x^2 + 100} + \frac{1}{x^2 + 100} \right) dx =$

8) $\int \frac{1}{4x^2 + 49} dx =$

9) $\int \frac{3}{\sqrt{16 - 25x^2}} dx =$

10) $\int \frac{1}{x\sqrt{x^2 - 64}} dx =$

$$11) \int \tan x \, dx =$$

$$12) \int \cot 2x \, dx =$$

$$13) \int \sec 8x \, dx =$$

$$14) \int \csc x \, dx =$$

$$15) \int_0^1 \frac{2\sqrt{3}}{x^2+3} \, dx =$$

$$16) \int_1^{\sqrt{3}} \frac{1}{\sqrt{4-x^2}} \, dx =$$

$$17) \int \frac{20}{x\sqrt{9x^8-1}} \, dx =$$

$$18) \int_{\pi/6}^{\pi/2} \frac{\cos x}{\sin x+9} \, dx =$$

$$19) \int_0^{\ln 3} e^{4x} \, dx =$$

$$20) \int \frac{3x^2}{(x^3+5)^7} \, dx =$$