

Find the derivative or antiderivative as indicated. Put your answers on the lines provided.

(a) $\int \cos x \, dx =$ _____

(b) $\int x^{-4} \, dx =$ _____

(c) $\frac{d}{dx}(e^x) =$ _____

(d) $\frac{d}{dx}(\operatorname{arcsec} x) =$ _____

(e) $\int \sec^2 x \, dx =$ _____

(f) $\int \csc x \cot x \, dx =$ _____

(g) $\frac{d}{dx}(x^3) =$ _____

(h) $\frac{d}{dx}(\cot x) =$ _____

(i) $\int \frac{1}{1+x^2} \, dx =$ _____

(j) $\int \frac{1}{x} \, dx =$ _____

(k) $\frac{d}{dx}(\sec x) =$ _____

(l) $\frac{d}{dx}(2^x) =$ _____

(m) $\int 3 \, dx =$ _____

(n) $\int \frac{1}{\sqrt{1-x^2}} \, dx =$ _____