

1) Find each integral below. Simplify your answers.

$$\int 3x^2 + x + 3 dx$$

$$\int \frac{1}{t^3} dt$$

$$\int 5(3x + 5)^4 dx$$

$$\int_{\pi/6}^{\pi/2} \cos(x) dx$$

$$\int_0^3 3(3x + 1)^2 dx$$