$$\frac{Bassic}{(3x^{2}+1) \times dx}$$

$$u = 3x^{2} + 1 \left[dx = \frac{1}{6x} du \right]$$

$$\int (\sin x)^{2} \cos x dx$$

$$u = e^{x^{2}} \times dx$$

$$u = e^{x^{2}} \cdot x dx$$

$$du = e^{x^{2}} \cdot 2x dx$$

the key for u-sub is to find a subset of the problem whose derivative also appears.