

$$[e^{x} \cdot Sin(x)]' = [e^{x}] Sin(x) + e^{x} \cdot [Sin(x)]'$$

$$= e^{x} Sin(x) + e^{x} \cdot (cos(x))$$

$$= [e^{x}] Sin(x) + (cos(x))]'$$

$$= [e^{x}] Sin(x) + (cos(x))]$$

$$= [e^{x}] Sin(x) + (cos(x))]$$

$$= [e^{x}] Sin(x) + (cos(x))]$$

$$= [e^{x}] S$$