

Find the general solution to the exact differential equation.

$$Ex 4) \frac{dy}{dx} = 2x(\cos x^{2}) \qquad y = 5in x^{2} + C$$

$$\int ax(\cos x^{3}) \qquad Check:$$

$$y = 5in x^{2}$$

$$f = cosx^{2}(x)$$

$$Fx 5) \frac{dy}{dx} = sec^{2}x + 2x + 5 \qquad y = tanx + x + 5xtC.$$

$$\int ec^{2}x + 2x + 5 \qquad y = tanx + x + 5xtC.$$

$$\int ec^{2}x + 2x + 5 \qquad y = tanx + x + 5xtC.$$

$$\int ec^{2}x + 2x + 5 \qquad y = tanx + x + 5xtC.$$

$$\int ec^{2}x + 2x + 5 \qquad y = tanx + x + 5xtC.$$

$$\int ec^{2}x + 2x + 5 \qquad y = tanx + x + 5xtC.$$

$$\int ec^{2}x + 2x + 5 \qquad y = tanx + x + 5xtC.$$

$$\int ec^{2}x + 2x + 5 \qquad y = tanx + x + 5xtC.$$

