$$\begin{array}{c} (2x,1) \qquad \int (2x)^{2} dx \qquad F(x) = (2x)^{2} + C, \\ = (2x)^{2} + C \qquad F'(x) = (2x)^{2} + C, \\ = (2x)^{2} + C \qquad F'(x) = (2x)^{2} + C, \\ = (2x)^{2} + C \qquad U = ($$

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$$\frac{1}{3} \int (3\sin x + 4) \frac{5}{3} \cos x \, dx$$

$$\frac{1}{3} \int u^5 \, du = \frac{1}{3} \cdot \frac{1}{6} u^6 + C = \frac{1}{18} u^6 + C$$

$$= \frac{1}{18} (3\sin x + 4)^6 + C$$

$$= \frac{1}{18} (3\sin x + 4)^6 + C$$

$$2\left(\frac{\sin\sqrt{x}}{\sqrt{x}}\right) = \frac{1}{2\sqrt{x}} dx$$

$$2\left(\frac{1}{2\sqrt{x}}\right) = \frac{1}{2\sqrt{x}} dx$$

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$$= \frac{1}{2\sqrt{x}} dx$$

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