

1)

$$\frac{8}{\sqrt{x}} + 8x^{5/2} + 7 \ln(x) + C$$

2)

$$\frac{6x + 8}{x^2 + 5} - \frac{6}{x + 4}$$

3)

$$-\frac{1}{32} \sin(16x) + \frac{1}{2}x + C$$

4)

$$\frac{1}{8} \sin(8x) - \frac{1}{24} \sin^3(8x) + C$$

5)

$$\frac{1}{12} \sqrt{8x^3 + 60x^2 + 21} + C$$

6)

$$-\frac{1}{2} \ln(9 - 2x) + \frac{1}{5} e^{5x} + C$$

7)

$$\frac{2}{45} (3x + 10)^{5/2} - \frac{20}{27} (3x + 10)^{3/2} + C$$

8)

$$\frac{1}{7} x^7 \ln(x) - \frac{1}{49} x^7 + C$$

9)

$$4 \ln(x^2 + 36) + 5 \arctan \frac{x}{6} + C$$

10)

$$\frac{5}{27} \int_{\frac{\pi}{4}}^{\frac{\pi}{3}} \tan^2 \theta d\theta$$