ANSWERS

1. $\frac{6}{5}\sin(5x) + c$
2. $\frac{e^{7x}}{7} + c$
3. $\frac{\cot(5-2x)}{2} + c$
4. $\frac{(3x-2)^8}{24} + c$
5. $\frac{4(x+4)^{\frac{3}{2}}}{3} + c$
6. $\frac{5^{8x}}{8\ln 5} + c$
7. $2\sec(7x) + c$
8. $\frac{\ln|2x-3|}{3} + c$
9. $\frac{-5}{5-x} + c$
10. $\frac{-\left(1+\frac{1}{x}\right)^4}{4} + c$
11. $4\ln|x^3 - 2| + c$
12. $\frac{cos^5(-5x)}{5} + c$
13. $e^{x^4-2x} + c$
14. $\frac{1}{6}\sec(e^{6t}) + c$
15. $\frac{8^{x^3}}{3\ln 8} + c$
16. $\frac{e^{4x-2}}{4\pi} + c$
17. $\frac{\sin^4\theta}{4} + c$
18. $\sqrt{x^2 + 10x + 4}^3 + c$
19. $\frac{-1}{2(4-\cos\theta)\text{^}2} + c$
20. $\frac{2}{3}$
21. $-\frac{1}{10e^5} + \frac{1}{10}$
22. $\frac{3^{10}}{\ln} - \frac{3^7}{\ln 3}$
23. $\ln 26 - \ln 8$
24. $e^{12} - \frac{1}{e}$