

$$4a) = \frac{2}{7}(1+x)^{\frac{7}{2}} - \frac{4}{5}(1+x)^{\frac{5}{2}} + \frac{2}{3}(1+x)^{\frac{3}{2}} + C$$

$$1) b) - \cot(\sin x) + C$$

$$c) -\cos(x - \pi) + C$$

$$d) -(x^5 + 1)^{-1} + C$$

$$10. \frac{1}{6}(5 + x^4)^{\frac{3}{2}} + C$$

$$12. 3\sin\left(\frac{x}{3}\right) + C$$

$$14. \frac{1}{5}\tan(5x) + C$$

$$20. -\frac{1}{5}(4 - 5x^2)^{\frac{1}{2}} + C$$

$$22. \frac{2}{3}(x^3 + 3x)^{\frac{1}{2}} + C$$

$$24. \frac{1}{3}\cos\left(\frac{1}{x}\right) + C$$

$$34. \frac{1}{12}(\sin 2t)^6 + C$$