1. $-2\ln|x| + C$

2. $\dfrac{1}{x^2} + C$

3. $\dfrac{3}{2}\ln|x+2| + C$

4. $\dfrac{-3}{8(x+2)^4} + C$

5. $\dfrac{1}{4}\ln|x^4 - 3| + C$

6. $\dfrac{-1}{12(x^4 - 3)^3} + C$

7. $\dfrac{-1}{5}\ln|1 - x^5| + C$

8. $\dfrac{1}{10(1 - x^5)^2} + C$

9. $\ln|\sin x| + C$

10. $\dfrac{-1}{2\sin^2 x} + C$

11. $\dfrac{-3}{4}\ln\left|1 - x^{\frac{4}{3}}\right| + C$

12. $\dfrac{3}{4\left(1 - x^{\frac{4}{3}}\right)} + C$