

X.1.
$$\left(\frac{x+2}{\sqrt{8}}\right)+C$$

***2.**
$$\frac{11}{6\sqrt{3}}$$

3.
$$\times$$
 2 [arcsin $\left(\frac{X+1}{2}\right) + \frac{\left(X+1\right)\sqrt{4-\left(X+1\right)^2}}{4}$]+C

4. 8.
$$\frac{1}{2} \ln |(x+1)^2 + 4| + \frac{3}{2} \arctan (\frac{x+1}{2}) + C$$

7.
$$\times$$
 $\left(\ln\left(\frac{3}{8}\right)\right)$ or $-\ln\left(\frac{8}{3}\right)$

8. X.
$$\frac{-\arctan x}{x} + \ln|x| - \frac{1}{2}\ln|x^2 + 1| + C$$

10.
$$x$$
. $\ln |x-1| - \frac{1}{2} \ln |x^2 + 9| - \frac{1}{3} \arctan (\frac{x}{3}) + C$