Homework II Final Answers

$$(a)$$
 and (b) $-\frac{3}{2}$

11.
$$\left(-\frac{1}{\sin x} + C\right)$$

$$\frac{2}{24} - \frac{\left(1 - \chi^3\right)^8}{24} + C$$

12.
$$\left(\frac{2}{3}\sin\left(9+\chi^{\frac{3}{2}}\right)+C\right)$$

3.
$$\left(\frac{-1}{35(x^5-3)^7}+C\right)$$

13.
$$\frac{1}{2\left(\cos x - \sin x\right)^2 + C}$$

$$4. \quad \frac{1}{3} \sec(3x) + C$$

14.
$$-\frac{\sqrt{3}}{4}$$

$$5. \left(\frac{1}{3}\sin\left(\frac{3}{2}-6\right)+C\right)$$

6.
$$\left(-\frac{1}{x}\right) + C$$

$$7. \qquad \left(-\frac{\cos^5 X}{5} + C\right)$$

$$8 \left(-\frac{1}{3}\left(4-\chi^{2}\right)^{\frac{3}{2}} + C\right)$$

18 (a) Displace ment
$$\left(-\frac{9}{2}\right)$$

9.
$$\left(-\sqrt{4-\chi^2}+C\right)$$