

(9) Simplify:
$$\sum_{S \in C^{2} - 0} = \sum_{S \in C^{2} - 0} = \int_{S \in C^{2} - 0} (6 \text{ points})$$

$$= \int - (\cos^{2} - 0) = \int_{S \setminus C^{2} - 0} (6 \text{ points})$$
(10) Using identities, find the exact, simplified value of the following: (3 points each)
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Solve the following equations:
$$0 \le x \le 2\pi$$
 (8 points each)
Dividing by COSX will following equations: $0 \le x \le 2\pi$ (8 points each)
2 sint($cos x = \sqrt{3} Cos x$
2 sint($cos x = \sqrt{3} Cos x = 2$
COSX (2 sin x - $\sqrt{3}$ Cos x = 2
COSX (2 sin x - $\sqrt{3}$) = 0
(0 sk = 0 sin x = $\frac{13}{2}$
 $\sqrt{2}$
 $\sqrt{$

(19). Two cars leave a city at the same time and travel along straight highways that differ in direction by 128. If their speeds are mph and mph respectively, how far apart are the cars at the end of 2 hours? (Exact and approximate.)
 (sketch a picture and label any variables used). (7 points)





