

(2) HOW MANY solutions does each of the following equations with the given restrictions on  $\theta$  have? (Do not need to solve, just tell how many solutions there would be.) (1 point each)

(a) 
$$\sin\theta = 0.3; \quad -\frac{\pi}{2} \le \theta \le \frac{\pi}{2}$$
 (c).  $\theta = \cos^{-1}\left(\frac{1}{3}\right)$  (d)  $\tan\theta = \frac{1}{8}$  (e)  $\tan\theta = \frac{1}{8}$  (f)  $\tan\theta = \frac{1}{7}; \quad 0 \le \theta < 2\pi$ 







