8.56

a) 
$$d = .02$$
 $20/2 = 2.33$ 

98% C2 for p:

 $(0.45 \pm 2.33) \frac{0.45 \times 0.55}{800}$ 
 $= (0.409 \times 0.49)$ 

b) No. Not enough evidence to show the hajoring say that nowes are getting better.

8.97

a)  $P(\chi_{10} \leq \frac{(n-1)^{3}}{6^{2}}) = 1-\alpha$ 
 $P(\chi_{10} \leq \frac{(n-1)^{3}}{\sqrt{2}} \times \frac{(n-1)^{3}}{\sqrt{2}}$ 

b) complete to a)

8.99. a)  $G \leq \sqrt{\frac{n-1}{2}} \cdot S$ 

b)  $G \geq \sqrt{\frac{n-1}{2}} \cdot S$