Group Names and Student Numbers (minimum of two names required for participation to be recorded):				
1	2	3		

Wacky Incorporated has an unusual widget that satisfies the demand relationship  $q=100p^2e^{-p}, \label{eq:q}$ 

where q is the number of widgets demanded (in thousands) when the price is p dollars per unit. Recall that the price elasticity of demand is given by  $E[p] = \frac{p}{q} \frac{dq}{dp}$ .

(a) Find the price elasticity of demand E(p) explicitly as a function of p.

(b)	For which values of price $p$ will decreasing the price slightly result in an increase in revenue for the company?		
		Answer:	
(c)	If the price is currently at \$10 and is dropping at a rate per year is demand changing; in other words of demand under these conditions?		
		Answer:	