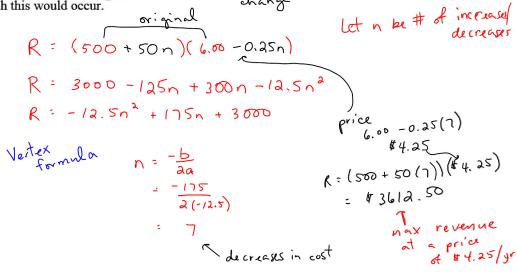
PC30S Max/Min Problems (Revenue) n is the # of increases/dureases

1.) A student newspaper has 500 subscribers who pay \$6.00/year. For every \$0.25 decrease they would sell 50 more subscriptions. Find the maximum revenue possible and the price at which this would occur.



2.) Sponsors of a design show believe 600 people will attend if the price is \$6.00 per ticket. They assume that 25 fewer people would attend for each \$0.50 increase in price. Find the price that will produce a maximum revenue. How many people would attend?

$$n = -\frac{b}{2a}$$

$$= -\frac{150}{2(-12.5)}$$

$$= 6$$

$$= 6$$

$$price + 0.50(6)$$

$$# 9.00$$

$$# 0f ppl - 25(6)$$

$$670 - 25(6)$$

Worksheet

- 7350
- 2) #30
- 3) \$ 0.70
- 4) \$ 500
- 5) \$14