## **Quadratic Applications** om Pons 150 Sell 50 32 Sellaless Maximize Revenue Rev = \$20.50=\$1000 Vertx = (pria) (# sold) R=(20+2x)(50-3x) set = 0 X = + of price changes Factor or quadr. FOIL Solve factor. X-Int = . Solve with quali. formula Rev = 300x-2x2 X=-10 Cost = 20 x + 1000 50 - 3x = 050 = 3x Maximize profit. Profit = Revenue - Cost Vertex: