Bellwork Hon Alg 2 Monday, Octobber 31, 2016 Graph each parabola using at least five points. 1. $y = 4x^2 - 24x + 28$ 2. $y = -2x^2 - 20x - 44$



3. A company wants to maximize their production. The following equation models the number of pieces they can produce as a function of the number of workers that they have working on a shift. $P(w) = -0.9w^2 + 64.8w + 75$

- a) Find the company's maximum production.
- b) Find the number of workers that are needed for this maximum production.

