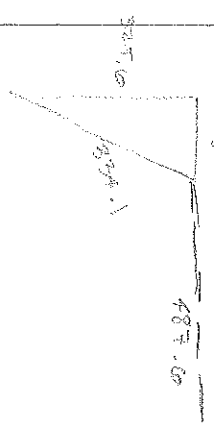


$$8cm - 650/2 = 325$$

$$(0) Dan - \left(\frac{560 \cdot 0}{5} + \left(\frac{325 \cdot 0}{2} \right) \right) = 275 \cdot 32 =$$

$$(3) Shay - \left(\frac{487 \cdot 0}{5} \right) + \left(\frac{334 \cdot 1}{2} \right) = 264 \cdot 5 =$$



- (90) = 2673
- (100) = 262.8
- (125) = 261.9
- (150) = 261.7

* Looking for maximum or minimum - INCREASING POINT

OPTIMIZATION

- 1) What can you vary? exp. X n. distance
- 2) What are you optimizing? exp. time, know find?
- 3) Function. exp. when x or when distance to solve

$$f(x) = \left(\frac{5x^2 + 325 \cdot 0^2}{2} \right) + \left(\frac{560 \cdot 0 \cdot x}{5} \right)$$

* Input into calculator with y =

* Input to find optimal

* graph equation →

