

- Skill 3
- Now Nick, Pavel, and Henrick can raise some additional money to invest, so they want to maximize profit. They sell the bobble heads for $\$ 15$ each and the pucks for $\$ 10$ each.
- We want to find the sales quantities that will give the maximum profit within the given constraints.
- First we write an objective function for revenue.
- $r=15 x+10 y \quad$ where $r=$ the total revenue

I5 = selling price of bobble heads
x = the \# of the bobble heads sold
$10=$ selling price of the pucks
$y=$ the \# of pucks sold

Now we want to subsitute out intersection points in to the revenue function

Where is the maximum revenue at?

Where is the maximum profit at?
$r-c$

- We can also find the maximum profit by writing an objective function for profit.
p $p=r-c$


## Homework

- Page I74-I77
- 8-|7.23-3I

