Last class

- Economics
study of unlimited
wants w/ limited
resources.
$\rightarrow$ study of choice.
Three components.
- Economics as a moral science
$\rightarrow$ "ought" [Normative]
-Economics as a science ca "is" [Positive]
$\hookrightarrow$ Microeconomics
$\rightarrow$ Macroeconomics
10 Econometrics
- Political Economy


Econmaic Institutions
L formal's informal rules that constrain or mondente human economic behavior



Interpreting slope

$$
\text { slope }=\Delta=-1
$$

Delta
For every unit change in the
$x$-axis, $\Delta$ is the change in the $y$-axis.
$\rightarrow$ For every one hour increase aet work, $\frac{y \text { lou lose } 1}{\Delta=-1}$ hour
in class.
Role of technology
Ex: Online classes

$\rightarrow$ Techuoly changer the marginal opportunity cost in this example.
Ex: What is the marginal opportunity cost of moving from 0 hours in on tine courses to 10 hours?

$$
\begin{array}{ll}
\text { courses to } & x_{2}=22.5 \\
y_{2}=10 & x_{1}=40 \\
y_{1}=0 & x_{1}=-10 \\
\Delta=\frac{10-0}{22.5-40}=\frac{10}{-17.5}=-0.57
\end{array}
$$

For every hour extra we spend at online classes, we lose 0.57 at work
Before, we lust an bour, now we lose a half-houn, at work.
$\checkmark$ Oust hanging opportunity

Course Website tomschenkjr.net


For lowe, the PPF is:

| Com | Tobacco |
| :---: | :---: |
| 0 |  |
| 5 | 12 |
| 10 | 9 |
| 15 | 6 |
| 20 | 3 |
|  | 0 |

For Virginia:

| Corn |  | To base |
| :---: | :---: | :---: |
|  |  | 20 |
| 3 |  | 15 |
| 6 |  | 10 |
| 9 | 5 |  |
| 12 | 0 |  |



What if low and Virginia engaged in trade?

- Iowa has a lower marginal opportunity cost to produce corn compared to Virginia
- Virginia " " "" to produce Tobacco compared to low low produces 20 bushels of corn, Virginia 20 bushels of toboces.
- With trode, both states cay consume beyond their indridral PPF.

Local $\rightarrow$ Corporative
Resources $\rightarrow$ Advantage
specialize $\rightarrow$ Trade $\downarrow$ Consumina/Prodolng...

