$$
\begin{aligned}
& \text { 9-23-13 } \\
& 1^{\text {st }} \text { Geo } \\
& \text { If you are nice then } \\
& \frac{\text { you will get candy }}{8} \\
& p \rightarrow q \quad \operatorname{pimplies}_{\text {or }} p \\
& \text { "If potheng." } \\
& p \text { : you are } 17 \text { ur older } \\
& \text { q: you con get into an R movie } \\
& \text { What symbolic language } \\
& \text { build represent } \\
& \text { If you aren't } 17 \text { ur oldie. } \\
& \text { then you cant get into an } \\
& \text { R movie. } \\
& \sim p \rightarrow \sim q
\end{aligned}
$$

p: you smell
g: you have a lout of friends
What would $p \rightarrow \sim q$ mean?
"If you smell, than you don't have a lout of foicads.
$p$ : you can dunk
g: you play Pikeman.
Translate: $\sim q \rightarrow p$
"If you dung play Pokeman. then you con dunk".
p: you don't like baseball
g: you are old
Translate $q \rightarrow \sim p$
"If you are old, then you do like baseball."

Words
$\therefore \rightarrow$ Therefore
$V \rightarrow$ or
$\wedge \rightarrow$ And
$a$ : you are 10
b: you like dogs
c: you get $\$ 20$
Represent

$a \wedge b \rightarrow c$
PI f you have a laptop than you
" Inane a computer" is represented
by $p \rightarrow g$. What represents
"If you have a computer, then you don't have a laptop."

$$
q \rightarrow \sim p
$$

Let $\rho$ represent $\sqrt{11}=z$,
and let of represent $z$ is a
rational number.
What represents
"If $\sqrt{11}=z$ then $z$ is not a rational number.

$$
p \rightarrow \sim q
$$

