Warm-up

1) Find the missing is 2) Find $x$

2) Write the converse:

If it is sumy, then $V_{0} z$ is smiling
If $V_{0 z}$ is smiling, then it is sunny
Combine like terms.
4) $8 x-2+3 x-3$
5) $\frac{2 x^{2}+5 x-10-7 x^{2}}{-5 x^{2}+5 x-10}$
3.3 Prove Lines are Parallel

Original: If lines are parallel, then corresponding e's are congruent
Converse If corresponding i's are congruent then the lines are parallel.


So, how can we prove lines are ll?

1) If Corresponding $i s$ are congruent
2) If alt. interior is" "
3) If alt. exterior is " "
4) If consecutive interior angles are supplementary (add to $180^{\circ}$ )

Example - Is m\|n? Explain why or not
1)

2)


Conses interior is add to $18^{\circ}$, So $m \| n$

Alt $\sum x+$ is are $\cong$


Corresp. L's are $\cong$.
so $m \| n$

$m \angle 1+m \angle 2=180^{\circ}$
Alt int is NoT $\cong$.
So $m \not X_{n}$

