$$5n+2>-18$$
 or  $-3(n+4)>21$ 
 $-3-20$ 
 $-3n-12>21$ 
 $-3n-12>21$ 
 $-3n>33$ 
 $-3n>4$ 
 $1>4$ 
 $1>4$ 



#40 p. 386

 $$5,319 \le p \le $33,592$ 

(42) h = skier's height 150-220 cm (range available) 1.16 h = recommended length

 $\frac{150}{1.16} \leq \frac{1.16}{1.16} \leq \frac{220}{1.16}$ 

 $129.31 \text{ cm} \leq h \leq 189.66 \text{ cm}$  h < 129.31 cmh > 189.66 cm

## Announcements:

```
· Skills test tomorrow -
Tues. 11/4 solving/graphing-
inequalities

· Unit test - Gections 6.1-6.5

Wed. 11/5
```

## Solving absolute value equations:

Absolute value: always positive

distunce at is from  $\emptyset$   $|\alpha| = \alpha$ , if a is positive  $|\alpha| = (-1)\alpha$ , if a is negative |4| = 4 |-3| = (-1)(-3) = 3

$$|x| = 7$$
, what is  $x$ ?  
 $x = 7$  or  $x = -7$   
 $|x| = -4$  no solution  
 $-|x| = -3$  or  $x = -3$ 

$$|x+5| = 12$$
 $|x+5| = 12$ 
 $|x+5| = 12$ 

$$3|2x-7|-5=4$$

$$+5$$

$$3|2x-7|=9$$

$$3|x-7|=3$$

$$|2x-7|=3$$

$$|2x-7|=3$$

$$|2x-7|=3$$

$$|2x-7|=4$$

6. 
$$|2x-3| = 15$$
  $2x-3=15$   $2x-3=-15$   $2x=18$   $2x=-12$   $2x=-6$ 

8. 
$$|7x + 2| = 23$$
  $7x + 2 = -25$   $7x = -25$   $x = 3$  or  $x = -25$ 

10. 
$$|3||2x-2| = 18$$
 $|2x-2| = 6$ 
 $|2x-2| = 6$ 

12. 
$$2|6x+5|-1=25$$

$$2|6x+5|=26$$

$$3|6x+5|=3$$

$$4|6x+5|=3$$

$$4|6x+5|=13$$

$$4|6x+5|=13$$

$$4|6x+5|=13$$

$$4|6x+5|=13$$

$$5|6x+5=-13$$

$$5|6x+5=-13$$