## 9.2 Solving Single-Step Inequalities

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\* the rules are the same for an equal sign except that there is an inequality symbol ! x - 3 = 2+3 +3 x = 5 $\times -3 \ge 2$ × 7,5 solution 5 Ex #1 b)  $\frac{x}{-2} > 6 \times -2$ a)  $8x \le 24$  $x \le 3$  $\times < -12$ # When multiplying/Dividing by a NEGATIVE #, you reverse the inequality symbol Ex #2  $a \rightarrow n < 4$ -1n > -4b) -6 >-m re-write Im < -6 -1 -1 m >6 <u>Ex.#3</u> a)  $5x + 6 \ge 16$  -6 -6  $5x \ge 10$  5 = 5  $x \ge 2$ solutions for x are 2, 3, 4...

 $b) -5 > \frac{x}{3}$   $\frac{x^{3}}{2} - 5x^{3}$ -18 - 17 - 16 - 15 - 14 solutions for x are -16, -17, -18. X < -15 Pg 357 #5-14, 16, 23-28