Extra practice 6.7

1) $|-4| = 4$

4) $|1-5| = |-4| = 4$

9) a) $|\#| = 7$ 7 & -7

9) c) $|x - 5| = 7$

$x - 5 = 7$ $\quad$ $x - 5 = -7$

$+5 \quad +5$ $\quad$ $+5 \quad +5$

$x = 12$ $\quad$ $x = -2$

$x = 12, -2$

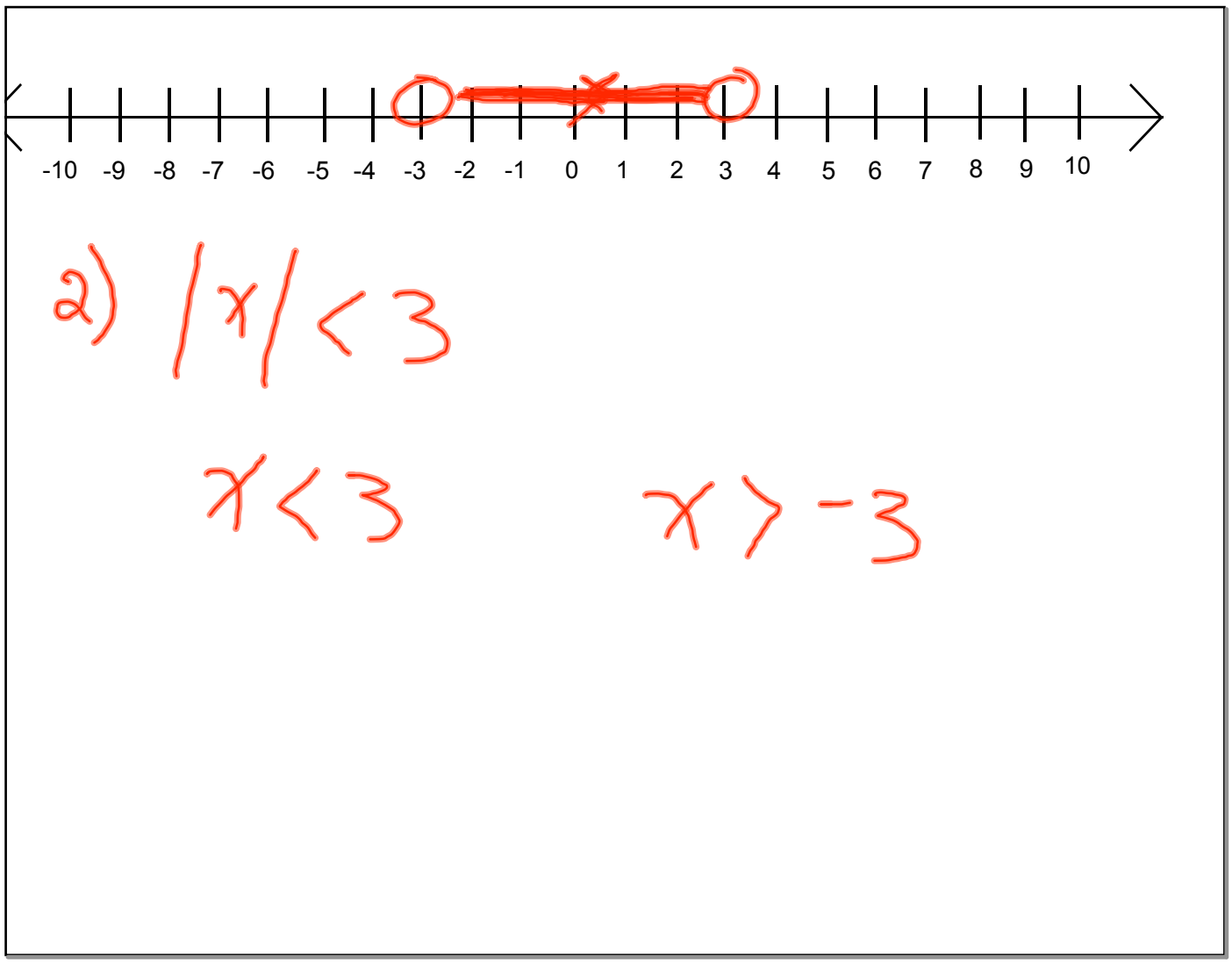
January 15, 2010

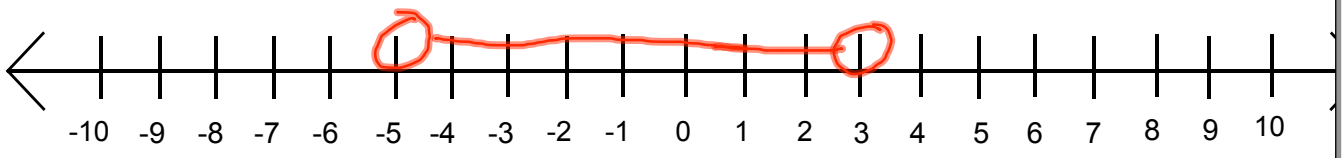
Enrichment 6.7

1) $|x| > 3$

$x > 3$ $\quad$ $x < -3$

January 15, 2010





3) $|x+1|<4$

$x+1<4$

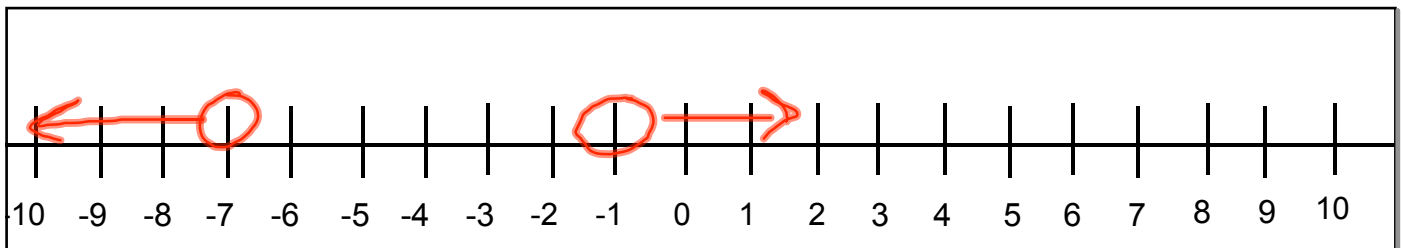
$-1 \quad -1$

$x<3$

$x+1>-4$

$-1 \quad -1$

$x>-5$



5) $|x+4|>3$

$x+4>3$

$-4 \quad -4$

$x>-1$

$x+4<-3$

$-4 \quad -4$

$x<-7$

6) $|x-1| \leq 5$

$x-1 \leq 5$ $\quad x-1 \geq -5$

now graph this

7) $|x+3| \geq 0$

$x+3 \geq 0$

$-3 \quad -3$

$x \geq -3$

$x+3 \leq 0$

$-3 \quad -3$

$x \leq -3$