

Ch. 29 - BOARD PROBLEMS

$$\textcircled{1} \sqrt{3x-2} = x-4$$

$$\textcircled{2} |x-1| + 10 = 5$$

$$\textcircled{3} 6|-5x| - 9 = 57$$

$$\textcircled{4} \frac{|7p+4|}{8} = 3$$

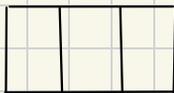
$\textcircled{5}$ FIND THE X-INTERCEPTS

a) $y = (x-3)^2 - 4$

b) $y = (x+2)^2 - 4$

$\textcircled{4}$ YOU WANT TO BUILD A PEN AS SHOWN BELOW IN THE SHAPE OF A RECTANGLE WITH TWO INTERIOR DIVISIONS.

IF YOU HAVE 2250M OF FENCING, WHAT IS THE MAXIMUM AREA YOU CAN ENCLOSE?



Ch. 29 - INEQUALITIES W/ ABSOLUTE VALUE & RADICALS

EX. 1 $|x+2| \geq 2$

remember in last lesson

how $|x+2| = 2$

became $x+2 = \pm 2$?

Two POSSIBILITIES

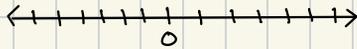
THAT METHOD DOES NOT

WORK WITH INEQUALITIES.

ⓐ $x+2 \geq 2$ or $-(x+2) \geq 2$

* REMEMBER \times or \div by a negative _____ inequality sign.

GRAPH.



EX. 2

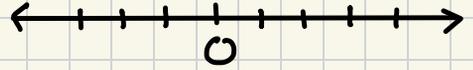
$$|3x-2| - 2 < -3$$

EX. 3

$$|3x-2| \geq 0$$

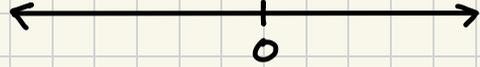
EX. 4

$$\sqrt{x+2} > 2$$



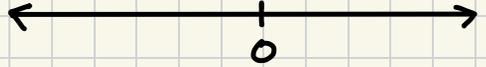
EX 5

$$|2x+3| - 8 > 0$$



EX. 6

$$\sqrt{x+12} \geq 4$$



EX. 7

$$\sqrt{x+5} - \sqrt[4]{5-2x} = 0$$

CHECK FOR EXTRANEIOUS SOLUTIONS