Solve
$$|x^2 + 4| = |4|$$

$$\chi^{2} = 10$$
 $\chi^{2} = \sqrt{10}$
 $\chi^{2} = \sqrt{10}$

No Solins

$$|x| = \sqrt{10}$$

$$X = \pm \sqrt{10}$$

$$\Rightarrow X = \pm \sqrt{10}$$

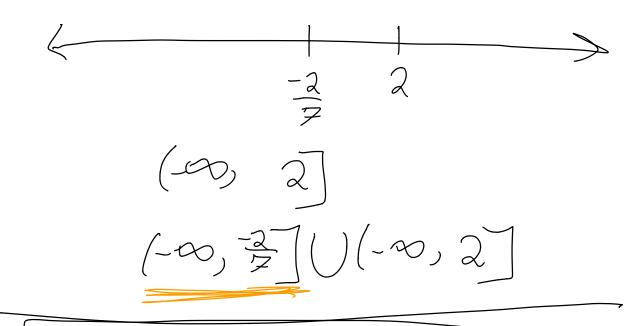
$$(-\sqrt{10})^2 = (-\sqrt{10})^2 - \sqrt{10}$$

$$\sqrt{8} = \sqrt{4.2} = \sqrt{4.\sqrt{2}} = 2\sqrt{2}$$

$$\frac{1}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{2\sqrt{2}}{2}$$

$$30 + 2 \le -40$$

$$0 \leq 2$$



Webassign Assignment De Sinday 11:59PM

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Fin With Functions

Functions $Ex: f(x) = \chi^2$

9(x) = 3x + 1

Height (Person) = Height of That Resson Defin: A function is a rule assigning to each mat an apput.

Notation: $f(x) = x^2$

 $f \circ f \times = X^2$

X is the input
X is the output
Squaring is the rule.

Defin: The Domain of f(x) is the Set of all allowed/defined inputs for f(x)

Defin: the Range of f(x) is the Set of all ortputs for f(x)

Notation: $Pom(f) = D_f = \frac{2}{2}x | f(x) = \frac{2$

 $\frac{2779}{2} = f(x)$ $\frac{Range}{Range}$

$$Pom(f) = [0, 2]$$