# Algebral Notes Section 5.6 Solve Absolute Value Inequalities 

Big Ideas

1. How to rewrite and absolute value inequality as a compound inequality.

VOCABULARY
AND:
OR:

EXAMPLE 1 Solve the inequality and then graph your solution.
a) $|x| \geq 6$
b) $|x| \leq 0.5$
$\qquad$
$\qquad$

EXAMPLE 2 Solve and then graph your solution.
a) $|x-5| \geq 7$
b) $|x+2|>1$

4EXAMPLE"S" "Solve." "

a) $1-4 x-5 \mid+3<9$
b) $|2 x+3|-4 \leq 5$
c) $3|5 m-6|-8 \leq 13$

Example 4 You are buying a new computer and find 10 models in a


a) Find the mean of the prices.
b) You are willing to pay the mean price with an absolute deviation of at most $\underset{~}{\mathbf{s}} 100$. How many of the computer prices meet your condition?

