## Algebra II <br> 1-1 <br> The Real Numbers and Their Graphs



Draw a pectoral representation of the Real Numbers -


Symbols of order -

$$
\begin{array}{lll}
\langle,\rangle, \leqslant, \geqslant & \\
\frac{2}{3}>\frac{1}{4} & \left.-\frac{2}{3}\right\rangle-\frac{1}{3} & 0 \leqslant 3 \\
\text { True } & \text { False } & \text { True }
\end{array}
$$

Definitions
Opposite- negative

Absolute Value - $\quad|-7|=7$
$|7|=7$
$|0|=0$


Why do we need absolute value? For distance.

$$
7 \geq 7
$$

True

Find the coordinate of each point described. Use the number line below.(pg 4)

1) $B=-6$

Write each statement using symbols.
11) Zero is greater than negative six.
$0>-6$

On a number line, point A has coordinate -5 and point B has coordinate 1. Fine the coordinate of each point described.
33) The point 2 units to the left of B. -1


Graph each pair of numbers on a separate number line. Then write an inequality statement comparing the numbers.
17) 0 and -4
$-4<0$


Find the value of each expression.
25) $|-5|-|-2|$
$5-2$
3


