

Welcome To PRECALC

SET NOTATION

\in is an element of

$$\left. \begin{array}{l} U = \{0, 1, 2, 3, 4, 5, 6\} \\ A = \{1, 3\} \quad D = \{2, 4, 6\} \\ B = \{0, 2, 4, 6\} \quad E = \{0\} \\ C = \{4, 5, 6\} \end{array} \right\}$$

$$3 \in A \quad T$$

$$0 \in D \quad F$$

$$3+5 \in C \quad F$$

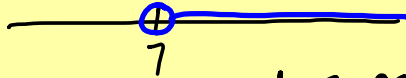
\subset Subset

$$D \subset B \quad T$$

$$E \subset C \quad F$$

INTERVAL NOTATION

$$x > 7$$



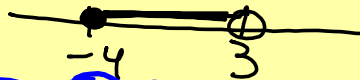
$$(7, \infty)$$

$$[-8, 19]$$



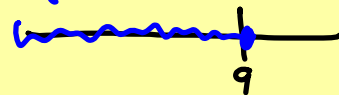
$[$ = \bullet \leftarrow closed circle \leftarrow can = the endpoint
 $($ = \circ \leftarrow open circle \leftarrow cannot = the endpoint

$$[-4, 3)$$

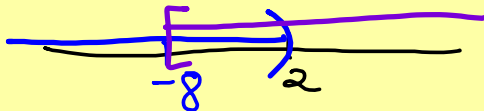


$$x \leq 9$$

$$(-\infty, 9]$$



$$(-\infty, 2) \cup [-8, \infty)$$



$$(-\infty, \infty)$$

\cup = Union (Join) = OR

\cap = intersection = AND

$$\cap = [-8, 2)$$

$$(-1, \infty) \cap [-1, 40)$$