Welcome To Precalc

Set Notation

$\in$ is an element of

$U = \{0, 1, 2, 3, 4, 5, 6\}$

$A = \{1, 3\}$ $\quad D = \{2, 4, 6\}$

$B = \{0, 2, 4, 6\}$ $\quad E = \{0\}$

$C = \{4, 5, 6\}$

$3 \in A$. T

$0 \in D$ F

$3+5 \in C$ F

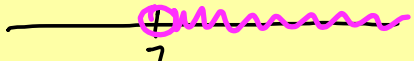
$\subset$ subset

$D \subset B$ T

$E \subset C$ F

Interval Notation

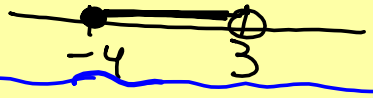
$x > 7$ $(7, \infty)$



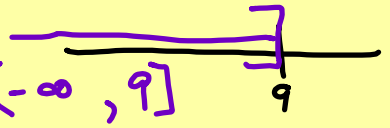
[= ● ← closed circle ← can = the endpoint

(= ○ ← open circle ← cannot = the endpoint

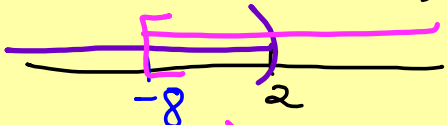
$[-4, 3)$



$x \leq 9$



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



$(-\infty, \infty)$

$\cup$ = union = OR

$\cap$ = intersection = AND

If above problem were an Intersection ($\cap$), the solution is [-8,2).

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

Solution: (-1,40)