August 18, 2022

Welcome To Precalc

Set Notation

$\in$ is an element of

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

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

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

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

$3 \in A$ True

$0 \in D$ F

$3 + 5 \in C$ F

$\subset$ subset

$D \subset B$ T

$E \subset C$ F

OR $\cup$ union $\quad C \cup D = \{2, 4, 5, 6\}$

AND $\cap$ intersection, #'s in both sets $\quad C \cap D = \{4, 6\}$

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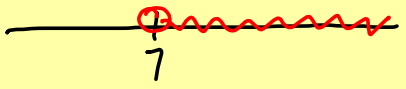
INTERVAL NOTATION

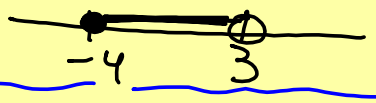
$x > 7$



$[= \bullet$

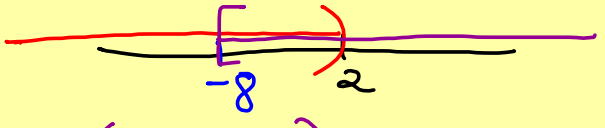
$(= \circ$

$-4 \le x < 3$



$[-4, 3)$

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



$\cap = [-8, 2)$

$(-\infty, \infty)$