

Complement of Sets

A) 1) If $U = \{-20, -15, -5, -4, 2, 3, 7, 9, 11, 49, 98\}$, $A = \{-4, 7, -20, 11, 98, 2\}$, and $B = \{7, 2, -5, -15, 49, 98\}$, find $A \cup B$.

$A \cup B =$ _____

PREVIEW

2) If $U = \{\text{spoon, fork, table, plate, glass, bowl, cup}\}$, $P = \{\text{glass, bowl, plate}\}$ and $Q = \{\text{bowl, table, plate}\}$, find $P' \cap Q$.

$P' \cap Q =$ _____

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3) If $U = \{14, 22, 27, 28, 31, 41, 62, 72, 78, 81\}$, $S = \{14, 28, 81, 62, 78, 31\}$, and $T = \{2, 31, 41, 62, 78, 81\}$, find $(S \cup T)'$.

$(S \cup T)' =$ _____

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B) If $U = \{a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z\}$, $X = \{a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z\}$ and $W \cap X = \{a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z\}$ and $W' \cap X' = \{a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z\}$.

$W' \cup X =$ _____

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$W \cap X' =$ _____

$W' \cap X' =$ _____