

Please upload your solutions to the Math 122 A01 Crowdmark page. Solutions are due Monday February 14th by 11:59pm (PT).

For this assignment, everyone will submit their own copy of the solutions.

You may write your solutions on paper, with a tablet, or typed on computer. Note that in Crowdmark we grade work question by question, so each submission area needs a solution in order for us to view all your work.

### Math 122 (A01) In-Class Assignment 6

1. Find the following set operations for the sets  $A = \{w, x, y, z\}$ ,  $B = \{t, u, v, x, z\}$ , and  $C = \{u, v, w, x\}$  that exist in the universe  $\mathcal{U} = \{s, t, u, v, w, x, y, z\}$ .

(a)  $A \cup B$

(b)  $A \cap B$

(c)  $A \setminus B$

(d)  $A \oplus B$

(e)  $A^c \cap B^c$

(f)  $A \setminus (B \setminus C)$

(g)  $A \cup (B \cap C)$