Quiz #1: Solutions

Monday, September 18 2017

Problem 1.

(1) $R \cap S \cap T = \{2\}$.

(2) $(R \cap S) - T = \{5\}$.

(3) $|\mathcal{P}(T)| = 8$.

(4) $|(R \cap S) \times (R \cap T)| = 4$.

(5) $|R \cap (S \times T)| = 0$.

Problem 2.

(1) False.

(2) True.

(3) True.

(4) True.

(5) True.

(6) True.

(7) False.

(8) True.

(9) True.

(10) False.

Problem 3.

(1) False.

(2) True.

(3) True.

(4) True.

(5) False.

(6) True.

(7) False.

(8) True.

(9) True.

(10) True.