

Math 112 - Quiz 6

September 11, 2018

Name key

Score _____

Show all work to receive full credit. Supply explanations when necessary. This quiz is worth 5 points. YOU MUST WORK INDIVIDUALLY.

1. (5 points) Let

$$A = \{p, q, r, s, t\}$$

$$B = \{r, s, t, u, v\}$$

$$C = \{p, r, t, v\}$$

Determine each set.

$$(a) C - B = \{p\}$$

$$(b) B - C = \{s, u\}$$

$$(c) B \cap C = \{r, t, v\}$$

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

$$= \{p, q, r, s, t, u, v\} \cap \{p, r, t, v\} = \{p, r, t, v\}$$

$$(e) A - A = \emptyset$$