

Name: Selected Answers

Date: _____

Homework: Unit 1 – Foundations

Honors PreCalculus

All homework must be completed NEATLY on your own paper.

Homework 1.2: Set Operations

$U = \{0, 1, 2, 3, 4, 5, 6, 7, 8, 9\}$

$B = \{2, 4, 6, 7, 8\}$

$C = \{1, 3, 4, 6\}$

$A = \{1, 3, 4, 5, 9\}$

Use the sets above for #1 - #6.

1. $B \cup C$

2. $B \cap C$

3. $(A \cap B) \cap C$

$\{4, 6\}$

4. \bar{B}

5. $\overline{A \cup C}$

6. $\bar{A} \cap \bar{C}$

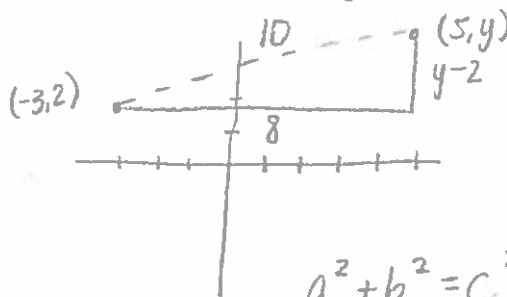
$\{0, 2, 7, 8\}$

7. Show that the points $(2, 5)$, $(6, 1)$, and $(8, -1)$ are collinear. (show each segment has the same slope)

8. Using the Pythagorean theorem, find two numbers y such that the distance from $(-3, 2)$ to $(5, y)$ is 10.

$y = 8$ and $y = -4$

Graphing may help...



$a^2 + b^2 = c^2$
 $8^2 + (y-2)^2 = 10^2$

