Name: _____ Quiz Score:_____/20

Quiz 6: Monday, March 9, 2015

No calculators.

1. (6 pts) Find each of the following.

    (a) $\text{Re}(13 - 5i) =$

    (b) $\text{Im}(13 - 5i) =$

    (c) $\overline{13 - 5i} =$

    (d) $\text{Re}(-67) =$

    (e) $\text{Im}(-67) =$

    (f) $\overline{-67} =$

2. (6 pts) Write the following in standard form.

    (a) the additive inverse of $4 - 3i$

    (b) $(2 + 4i) - (1 - 3i) + (5 - 2i)$

    (c) $(8 - 3i)(-5 - 2i)$

3. (8 pts) Find all pairs of real numbers (x, y) satisfying:

$$(x + 2i)(x - i) = 9 - yi$$

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