

Precalculus Practice N.CN.A.3: Moduli of Complex Numbers

www.jmap.org

NAME: _____

1. Give the absolute value. $5 + 8i$

7. Give the absolute value. $-6 - 4i$

2. Give the absolute value. $-2 + 6i$

8. Give the absolute value. $3 + 5i$

3. Give the absolute value. $-9 + 2i$

9. Compare the quantity in Column A with the quantity in Column B.

<u>Column A</u>	<u>Column B</u>
-----------------	-----------------

$ 3 - 2i $	$ 5 - i $
------------	-----------

[A] The quantity in Column A is greater.

[B] The quantity in Column B is greater.

[C] The two quantities are equal.

[D] The relationship cannot be determined on the basis of the information supplied.

4. Give the absolute value. $1 + 3i$

5. Give the absolute value. $-4 - 9i$

10. Write a complex number, $a + bi$, ($a \neq 0$, $b \neq 0$) such that $|a + bi| = 17$.

6. Give the absolute value. $8 - i$

Precalculus Practice N.CN.A.3: Moduli of Complex Numbers

www.jmap.org

[1] $\sqrt{89}$ _____

[2] $2\sqrt{10}$ _____

[3] $\sqrt{85}$ _____

[4] $\sqrt{10}$ _____

[5] $\sqrt{97}$ _____

[6] $\sqrt{65}$ _____

[7] $2\sqrt{13}$ _____

[8] $\sqrt{34}$ _____

[9] B _____

Answers may vary. Sample: $8 + 15i$, or

[10] $-8 + 15i$, or $8 - 15i$, or $-8 - 15i$ _____