

Math Sheet

Name _____ Score _____ / 10 Teacher _____ Date _____

Absolute Values of Complex Numbers

Find the absolute value of each complex number. Simplify each radical.

1. $|-9 + 3i|$

2. $|6 - 9i|$

3. $|6 + 4i|$

4. $|-3 + 4i|$

5. $|-4 - 2i|$

6. $|-8 - 3i|$

7. $|6 - 4i|$

8. $|-5i|$

9. $|-6 + 2i|$

10. $|4 - 4i|$

Absolute Values of Complex Numbers

Answer Key

Find the absolute value of each complex number. Simplify each radical.

1. $|-9 + 3i|$

Modulus:

$$\sqrt{81 + 9} = 3\sqrt{10}$$

2. $|6 - 9i|$

Modulus:

$$\sqrt{36 + 81} = 3\sqrt{13}$$

3. $|6 + 4i|$

Modulus:

$$\sqrt{36 + 16} = 2\sqrt{13}$$

4. $|-3 + 4i|$

Modulus:

$$\sqrt{9 + 16} = 5$$

5. $|-4 - 2i|$

Modulus:

$$\sqrt{16 + 4} = 2\sqrt{5}$$

6. $|-8 - 3i|$

Modulus:

$$\sqrt{64 + 9} = \sqrt{73}$$

7. $|6 - 4i|$

Modulus:

$$\sqrt{36 + 16} = 2\sqrt{13}$$

8. $|-5i|$

Modulus:

$$\sqrt{0 + 25} = 5$$

9. $|-6 + 2i|$

Modulus:

$$\sqrt{36 + 4} = 2\sqrt{10}$$

10. $|4 - 4i|$

Modulus:

$$\sqrt{16 + 16} = 4\sqrt{2}$$