

Secondary 2H  
Unit 5

Name \_\_\_\_\_ Desk \_\_\_\_\_  
Modulus and Dividing Complex Numbers (5.2BH/5.2CH)

Score \_\_\_\_\_

Find the modulus.

1.  $|3 - 5i|$

2.  $|-6 + 2i|$

3.  $|-3 - 3i|$

4.  $|2i|$

5.  $|17|$

6.  $|-6 + 4i|$

7.  $|-3 + 3i|$

8.  $|3 + 4i|$

9.  $5 + 12i$

10.  $|-7 - 3i|$

11.  $|8 - 4i|$

12.  $|-22|$

13.  $|3i|$

14.  $|-7i|$

15.  $|3 + 5i|$

16.  $|6 - 2i|$

17.  $|18 + 22i|$

18.  $|9 + 3i|$

19.  $|0|$

20.  $|2 + 2i|$

21.  $|-5 + 12i|$

Divide each complex rational expression, and write the answer in standard form.

22.  $\frac{2}{7i}$

23.  $\frac{4}{-5i}$

24.  $\frac{-6}{-7i}$

25.  $\frac{6+3i}{4i}$

26.  $\frac{-8-3i}{-2i}$

27.  $\frac{6-7i}{i}$

28.  $\frac{3i}{4-2i}$

29.  $\frac{6i}{-3+i}$

30.  $\frac{16}{-2+4i}$

31.  $\frac{13+9i}{3+4i}$

32.  $\frac{4-3i}{6+2i}$

33.  $\frac{8-3i}{4+2i}$

34.  $\frac{2+5i}{4}$

35.  $\frac{18-27i}{9}$

36.  $\frac{3-22i}{2i}$

37.  $(4+5i) \div (3-4i)$

38.  $(-2-6i) \div (4-2i)$

39.  $(8-3i) \div (-1+2i)$

40.  $5i \div (3-2i)$

41.  $(4+6i) \div -3i$

42.  $(18+2i) \div (6+i)$