Algebra 2 C - Ch5 Review (no graphing) Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block\_\_\_\_\_ Date\_\_\_\_\_\_\_\_

Sections 5.1 to 5.7

1) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7) {\_\_\_\_\_\_\_,\_\_\_\_\_\_\_}

8) {\_\_\_\_\_\_\_,\_\_\_\_\_\_\_}

9) {\_\_\_\_\_\_\_,\_\_\_\_\_\_\_}

10) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

11) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

12) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

13) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

14) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

15) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

16) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

17) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

18) {\_\_\_\_\_\_\_,\_\_\_\_\_\_\_}

19) {\_\_\_\_\_\_\_,\_\_\_\_\_\_\_}

20) {\_\_\_\_\_\_\_,\_\_\_\_\_\_\_}

**Factor the Expression**

1)  2)  3) 

4)  5)  6) 

**Solve the equation by factoring**

7)  8)  9) 

Multiply .

10)  11)  12) 

Simplify.

13)  14)  15)  16)  17) 

**Solve the equation by taking square roots**

18)  19)  20) 

21) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

22) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

23) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

24) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

25) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

26) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

27) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

28) {\_\_\_\_\_\_\_,\_\_\_\_\_\_\_}

29) {\_\_\_\_\_\_\_,\_\_\_\_\_\_\_}

30) {\_\_\_\_\_\_\_,\_\_\_\_\_\_\_}

21) What is the value of  ?

22) What is  ?

**Simplify each problem and write expression as a complex number in standard form.**

23) ( 5 – 2*i* ) + ( –7 + 6*i* ) 24) ( 3 – 2*i* ) – ( 2 – 5*i* )

25) ( 2 – 4*i* ) ( 3 – 5*i* ) 26) 4*i* ( 3 – 5*i* ) 27) 5*i* (4*i*)

**Solve the equation.**

28)  29)  30) 