PRE-AP Geometry Required Algebra Skills Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Show work. Date\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_\_\_

A list of answers will not be accepted.

**Simplify.**

1. (x + 4) (2x − 1) 2. 3(y – 4) (y + 2) + (2y – 1) (y + 8)

**Solve each system. Write each answer as an ordered pair.**

3. x + y = 3 4. 2x + 2y = **−** 4 5. 5x + 7y = 1

 x **−** y = 5 **−**x + 3y = 6 4x **−** 2y = 16

6. x + 2y = 5 7. 3x – 6y = -3 8. 8x – 5y = 14

 x – y = -1 2x – 3 = y 10x – 2y = 9

**Solve each equation by factoring.**

9. c**2** **−** 3c = 10 10. 4z**2** **−** 9 = 0

11. a**2 −** a **−** 12 = 0 12. n**2** + 10n + 21 = 0

13. 8y**2** = 32 14. 2x2 - 7x = 15

**Simplify each radical expression. (not a decimal)**

15.  16.  17.  18. 

19.  20.  21.  22. 2