**Algebra 2 Honors NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Algebra / Geometry review packet Period \_\_\_\_\_**

**Order of Operations: Evaluate each of the following *without a calculator*.**

**1.  2.  3. **

**Substitution: Evaluate each of the following for x=4 and y=7**

**4.  5.  6. **

**Simplify Terms: Completely simplify each of the following.**

**7. 5R - 6R (2 + 3R) 8.  9.  10. **

**11.  12.  13.  14. **

**15.  16.  17.  18. **

**19.  20. 3n - 2p + 5n +9p + n 21.  22. **

**Exponents: Completely simplify each of the following.**

**23.  24.  25.  26. **

**27.  28.  29.  30. **

**31.  32.  33.  34. **

**Fractional Exponents: Simplify each of the following. *(Can you do this without a calculator?)***

**35.  36.  37.  38. **

**Solve for X:**

**39.  40.  41.  42. **

**43.  44.  45. **

**46.  47.  48. **

**Systems of equations: Decide if the given point is a solution.**

**49.  50.  51. **

**Systems of equations: Solve each of the following systems.**

**52.  53.  54. **

**Quadratics: Multiply each of the following (FOIL).**

**55.  56.  57.  58. **

**Quadratics: Factor each of the following (un-FOIL)**

**59.  60.  61.  62. **

**Quadratics: Use the quadratic formula to solve this equation. **

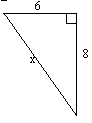
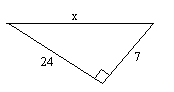
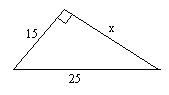
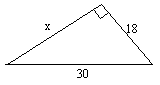
**Give answer as a decimal rounded to the tenth**

**63. **

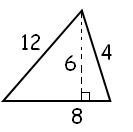
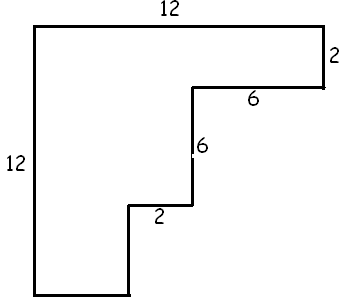
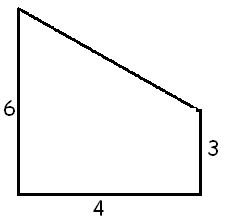
**Square roots: completely simplify each of the following.**

**64.  65.  66.  67. **

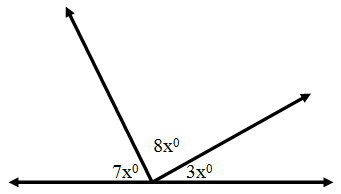
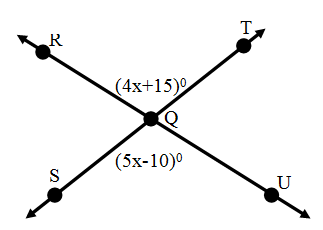
**Geometry: Use the Pythagorean Theorem to find x.**

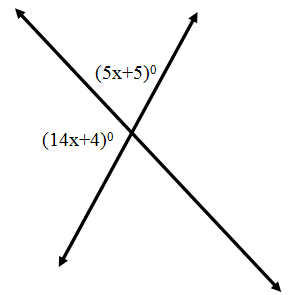
**68. 69. 70.**  **71.**

**Geometry: Find the area of each of the following.**

**72. 73. 74. 75.**

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**Geometry: Find the value of x in each of the following angle problems.**

**76. 77. 78.**