

Name: \_\_\_\_\_  
Period: \_\_\_\_\_

**Algebra Review  
Geometry**

**Simplify the expression in radical form.**

1.  $-\sqrt{169}$

2.  $-\sqrt{99}$

3.  $\sqrt{48}$

4.  $\sqrt{16 + 4}$

5.  $\sqrt{(-4)^2 + 6^2}$

6.  $\sqrt{175} - \sqrt{28}$

7.  $\sqrt{32} + \sqrt{162}$

8.  $\sqrt{8} \cdot \sqrt{10}$

9.  $4\sqrt{6} \cdot 2\sqrt{15}$

10.  $\sqrt{137} \cdot \sqrt{137}$

11.  $(9\sqrt{3})^2$

12.  $\sqrt{12} \cdot \sqrt{48}$

13.  $\frac{\sqrt{192}}{\sqrt{3}}$

14.  $\frac{\sqrt{2}}{\sqrt{49}}$

15.  $\frac{12}{\sqrt{6}}$

**Factor the quadratics.**

16.  $x^2 + 6x + 8$

17.  $y^2 - y - 6$

18.  $a^2 - 64$

19.  $z^2 - 8z + 16$

20.  $3s^2 + 2s - 1$

21.  $5x^2 - 17x + 6$