

Algebra 2 Honors**WS: Pre 5.6**

Name _____

Date _____ Block _____

Simplify completely.

1. $\sqrt{60}$

2. $3\sqrt{18}$

3. $5\sqrt{32}$

4. $\sqrt{2} \cdot \sqrt{40}$

5. $\sqrt{6} \cdot \sqrt{12}$

6. $2\sqrt{3} \cdot (-3\sqrt{2})$

7. $\sqrt{2}(\sqrt{4} + \sqrt{12})$

8. $(\sqrt{3} + \sqrt{5})(2\sqrt{3} + \sqrt{2})$

9. $(2 + \sqrt{3})(2 - \sqrt{3})$

10. $(3 + \sqrt{2})^2$

11. $6\sqrt{5} + 7\sqrt{5} - 13\sqrt{5}$

12. $\sqrt{20} + \sqrt{5}$

13. $3\sqrt{32} + 4\sqrt{18} - \sqrt{8} + \sqrt{12}$

14. $\sqrt{\frac{2}{5}}$

15. $\sqrt{\frac{3}{8}}$

16. $\frac{7}{4 - \sqrt{3}}$

17. $\frac{\sqrt{6}}{5 + \sqrt{3}}$

18. $\frac{1 + \sqrt{5}}{6 - \sqrt{5}}$