

Name _____
Mr. Schlansky

Date _____
Algebra II

Sum and Difference of Two Cubes

Factor the following polynomials

1. $x^3 - 8$

2. $x^3 + 8$

3. $y^3 - 125$

4. $z^3 + 64$

5. $8x^3 + y^6$

6. $y^9 - 216x^3$

7. $1000x^{12} - 27y^3$

8. $343x^{15} + 1$

9. $8 - 1331x^{24}$

10. $729x^3 + y^6$

11. $64x^{18} - 125y^9$

12. $27y^9 + 8x^{12}$