

Factoring Sum of Cubes

$$a^3 + b^3 = (a + b)(a^2 - ab + b^2)$$

Name: _____

Use the sum of cubes formula to factor the following. Don't forget to factor out the GCF if necessary.

1. $x^3 + 27$	2. $y^3 + 216$	3. $8 + s^3$
4. $64t^3 + 1$	5. $8 + 27a^3$	6. $81x^3 + 3$
7. $3t^4 + 24t$	8. $-8x^3 - 125y^3$	9. $x^6 + 64$
10. $54ab^3 + 128a$		