

Name:

Hour:

For each sum or difference of cubes: a) rewrite it as $(\quad)^3 +$ or $-(\quad)^3$
b) fill in the 5 part summary
c) factor using the correct formula $a^3 + b^3$ or $a^3 - b^3$

Example: $x^3 + 1$ a) $(x)^3 + (1)^3$
b) $a = x$ $b = 1$ $ab = 1x$
 $a^2 = x^2$ $b^2 = 1$
c) $(x + 1)(x^2 - 1x + 1)$

1. $x^3 - 1$

2. $x^3 - 64$

3. $x^3 - 125$

4. $x^3 + 27$

5. $x^3 + 216$

6. $8x^3 - 1$

7. $343x^3 - 64$

8. $125 - x^3$

9. $x^3 + 729$