

1) Factor: $x^3 + y^3$

2) Factor: $g^3 + 8$

3) Factor: $y^6 + 27$

4) Factor: $125d^3 + 216$

5) Factor: $8h^3 + 125b^9$

6) Fill in the missing parts: $___ + y^3 = (m + ___)(___ - my + ___)$

7) Fill in the missing parts: $27r^6 + ___ = (___ + ___)(___ - 3r^2p + p^2)$

8) Fill in the missing parts: $8g^3 + 27m^3 = (___ + ___)(4g^2 - ___ + ___)$

9) Fill in the missing parts: $___ + ___ = (d + 4z)(d^2 - 4dz + 16z^2)$