tip1:
$$a^3x^3 + b^3$$

= $(ax + b)(a^2x^2 - abx + b^2)$

tip2:
$$a^3x^3 - b^3$$

= $(ax - b)(a^2x^2 + abx + b^2)$

(1)
$$-125x^3 - 64$$

= $-(125x^3 + 64)$
= $-(5x + 4)(25x^2 - 20x + 16)$

(2)
$$x^3 + 64$$

= $(x + 4)(x^2 - 4x + 16)$

(3)
$$-x^3 - 64$$

= $-(x^3 + 64)$
= $-(x + 4)(x^2 - 4x + 16)$

(4)
$$8x^3 - 729$$

= $(2x - 9)(4x^2 + 18x + 81)$

(5)
$$125 - 8x^3$$

= $-(8x^3 - 125)$
= $-(2x - 5)(4x^2 + 10x + 25)$

(6)
$$125x^3 + 343$$

= $(5x + 7)(25x^2 - 35x + 49)$

$$(7) 729 - 64x^{3}$$

$$= -(64x^{3} - 729)$$

$$= -(4x - 9)(16x^{2} + 36x + 81)$$

(8)
$$125 - 8x^3$$

= $-(8x^3 - 125)$
= $-(2x - 5)(4x^2 + 10x + 25)$

(9)
$$-x^3 - 8$$

= $-(x^3 + 8)$
= $-(x + 2)(x^2 - 2x + 4)$

$$(10) 54 - 2x^3$$

$$= -2(x^3 - 27)$$

$$= -2(x - 3)(x^2 + 3x + 9)$$

(11)
$$27x^3 + 125$$

= $(3x + 5)(9x^2 - 15x + 25)$

(12)
$$x^3 + 64$$

= $(x+4)(x^2 - 4x + 16)$

(13)
$$729 - 125x^3$$

= $-(125x^3 - 729)$
= $-(5x - 9)(25x^2 + 45x + 81)$

(14)
$$8x^3 + 1$$

= $(2x + 1)(4x^2 - 2x + 1)$

(15)
$$64x^3 + 27$$

= $(4x + 3)(16x^2 - 12x + 9)$

(16)
$$8 - x^3$$

$$= -(x^3 - 8)$$

= -(x - 2)(x^2 + 2x + 4)

(17)
$$x^3 + 125$$

= $(x+5)(x^2 - 5x + 25)$

(18)
$$1 - 125x^3$$

= $-(125x^3 - 1)$
= $-(5x - 1)(25x^2 + 5x + 1)$

(19)
$$64 - 125x^3$$

= $-(125x^3 - 64)$
= $-(5x - 4)(25x^2 + 20x + 16)$

(20)
$$8 - 27x^3$$

= $-(27x^3 - 8)$
= $-(3x - 2)(9x^2 + 6x + 4)$