Factoring Sums & Differences of Cubes · 1

Factor: $125x^3 - 64$

Factoring Sums & Differences of Cubes · 2

Factor: $5x^3 + 625$

Factoring Sums & Differences of Cubes · 3

Factor: $64x^3 + y^3$

Factoring Sums & Differences of Cubes · 4

Factor: $27x^3 - 1$

Factoring Sums & Differences of Cubes · 5

Factor: $64x^3 + 27y^3$

Factoring Sums & Differences of Cubes · 6

Factor: $-2x^3 + 250$

Factoring Sums & Differences of Cubes · 7

Factor: $64x^3 + 27$

Factoring Sums & Differences of Cubes · 8

Factor: $4x^3 + 256$

Factoring Sums & Differences of Cubes · 2

**ANSWER**

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

Factoring Sums & Differences of Cubes · 1

**ANSWER**

$(5x - 4)(25x^2 + 20x + 16)$

Factoring Sums & Differences of Cubes · 4

**ANSWER**

$(3x - 1)(9x^2 + 3x + 1)$

Factoring Sums & Differences of Cubes · 3

**ANSWER**

$(4x + y)(16x^2 - 4xy + y^2)$

Factoring Sums & Differences of Cubes · 6

**ANSWER**

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

Factoring Sums & Differences of Cubes · 5

**ANSWER**

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

Factoring Sums & Differences of Cubes · 8

**ANSWER**

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

Factoring Sums & Differences of Cubes · 7

**ANSWER**

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

Factor: $64x^3 - 1$



Factor: $3x^3 + 375$



Factor: $27x^3 - 64y^3$



Factor: $8x^3 - 27$



Factor: $8x^3 - y^3$



Factor: $4x^3 - 256$



Factor: $8x^3 - 1$



Factor: $4x^3 + 4$

Factoring Sums & Differences of Cubes · 10

**ANSWER**

$$3(x + 5)(x^2 - 5x + 25)$$

Factoring Sums & Differences of Cubes · 9

**ANSWER**

$$(4x - 1)(16x^2 + 4x + 1)$$

Factoring Sums & Differences of Cubes · 12

**ANSWER**

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

Factoring Sums & Differences of Cubes · 11

**ANSWER**

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

Factoring Sums & Differences of Cubes · 14

**ANSWER**

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

Factoring Sums & Differences of Cubes · 13

**ANSWER**

$$(2x - y)(4x^2 + 2xy + y^2)$$

Factoring Sums & Differences of Cubes · 16

**ANSWER**

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

Factoring Sums & Differences of Cubes · 15

**ANSWER**

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

Factor: $8x^3 + 1$



Factor: $3x^3 + 24$



Factor: $x^3 + 64y^3$



Factor: $x^3 + 27y^3$



Factor: $2x^3 + 432$



Factor: $125x^3 + 216$



Factor: $-2x^3 - 250$



Factor: $5x^3 - 1080$

Factoring Sums & Differences of Cubes · 18

**ANSWER**

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

Factoring Sums & Differences of Cubes · 17

**ANSWER**

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

Factoring Sums & Differences of Cubes · 20

**ANSWER**

$$(x + 3y)(x^2 - 3xy + 9y^2)$$

Factoring Sums & Differences of Cubes · 19

**ANSWER**

$$(x + 4y)(x^2 - 4xy + 16y^2)$$

Factoring Sums & Differences of Cubes · 22

**ANSWER**

$$(5x + 6)(25x^2 - 30x + 36)$$

Factoring Sums & Differences of Cubes · 21

**ANSWER**

$$2(x + 6)(x^2 - 6x + 36)$$

Factoring Sums & Differences of Cubes · 24

**ANSWER**

$$5(x - 6)(x^2 + 6x + 36)$$

Factoring Sums & Differences of Cubes · 23

**ANSWER**

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