1)
$$-2a^2 - 3a - 9a^3 + 6$$

2)
$$7a^4 - 8a^8 + a^3 - 10a^5 - 6a^6 + 3$$

3)
$$2r^{3}$$

4)
$$7n^3 + 7n + n^6$$

5)
$$(n+8)(8n+8)$$

6)
$$(7n+5)(8n-1)$$

7)
$$(-7x^2 + 5x - 6)(-8x^2 - 7x - 5)$$

8)
$$(10x^3 + 3y)^2$$

9)
$$x^2 + x - 2 = 0$$

10)
$$x^2 - 4x - 5 = 0$$

11)
$$x^3 + 2x^2 + 2x + 4 = 0$$

12)
$$x^3 - 4x^2 + 4x - 16 = 0$$

13)
$$x^4 - x^2 - 20 = 0$$

14)
$$x^4 + 3x^2 - 18 = 0$$

15)
$$x^4 + 27x = 0$$

16)
$$x^4 - 64x = 0$$

$$17) -27x^4 + 64x = 0$$

18)
$$-64x^4 + 125x = 0$$

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1)
$$-2a^2 - 3a - 9a^3 + 6$$

cubic polynomial with four terms

2)
$$7a^4 - 8a^8 + a^3 - 10a^5 - 6a^6 + 3$$

eighth degree polynomial with six terms

3)
$$2r^{3}$$

cubic monomial

4)
$$7n^3 + 7n + n^6$$

sixth degree trinomial

Find each product.

5)
$$(n+8)(8n+8)$$

$$8n^2 + 72n + 64$$

6)
$$(7n+5)(8n-1)$$

$$56n^2 + 33n - 5$$

7)
$$(-7x^2 + 5x - 6)(-8x^2 - 7x - 5)$$

$$56x^4 + 9x^3 + 48x^2 + 17x + 30$$

8)
$$(10x^3 + 3y)^2$$

$$100x^6 + 60x^3y + 9y^2$$

9)
$$x^2 + x - 2 = 0$$

$$(x-1)(x+2)=0$$

10)
$$x^2 - 4x - 5 = 0$$

$$(x-5)(x+1)=0$$

11)
$$x^3 + 2x^2 + 2x + 4 = 0$$

 $(x+2)(x^2+2) = 0$

12)
$$x^3 - 4x^2 + 4x - 16 = 0$$

 $(x - 4)(x^2 + 4) = 0$

13)
$$x^4 - x^2 - 20 = 0$$

 $(x^2 + 4)(x^2 - 5) = 0$

14)
$$x^4 + 3x^2 - 18 = 0$$

 $(x^2 - 3)(x^2 + 6) = 0$

15)
$$x^4 + 27x = 0$$

 $x(x+3)(x^2 - 3x + 9) = 0$

16)
$$x^4 - 64x = 0$$

 $x(x-4)(x^2 + 4x + 16) = 0$

17)
$$-27x^4 + 64x = 0$$

 $x(3x - 4)(-9x^2 - 12x - 16) = 0$

18)
$$-64x^4 + 125x = 0$$

 $x(4x - 5)(-16x^2 - 20x - 25) = 0$

1)
$$7x + 9$$

2)
$$10b^2 + 1 + 4b^8 - 4b^7$$

3)
$$2a^5 + 6a^2$$

4)
$$10x^4$$

5)
$$(a-1)(3a-5)$$

6)
$$(6p+6)(2p-5)$$

7)
$$(-x^2 + 7x - 8)(2x^2 + 8x - 8)$$

8)
$$(-8x + 3y)^2$$

9)
$$x^2 + 4x + 3 = 0$$

10)
$$x^2 - 16 = 0$$

11)
$$x^3 + 4x^2 + x + 4 = 0$$

12)
$$x^3 + x^2 - 4x - 4 = 0$$

13)
$$x^4 - 9x^2 + 14 = 0$$

14)
$$x^4 + 2x^2 - 8 = 0$$

15)
$$x^4 - 27x = 0$$

16)
$$x^4 - 8x = 0$$

$$17) -125x^4 + 27x = 0$$

18)
$$8x^4 + 27x = 0$$

1)
$$7x + 9$$

linear binomial

2)
$$10b^2 + 1 + 4b^8 - 4b^7$$

eighth degree polynomial with four terms

3)
$$2a^5 + 6a^2$$

quintic binomial

4)
$$10x^4$$

quartic monomial

Find each product.

5)
$$(a-1)(3a-5)$$

$$3a^2 - 8a + 5$$

6)
$$(6p+6)(2p-5)$$

$$12p^2 - 18p - 30$$

7)
$$(-x^2 + 7x - 8)(2x^2 + 8x - 8)$$

 $-2x^4 + 6x^3 + 48x^2 - 120x + 64$

8)
$$(-8x + 3y)^2$$

$$64x^2 - 48xy + 9y^2$$

9)
$$x^2 + 4x + 3 = 0$$

$$(x+3)(x+1)=0$$

10)
$$x^2 - 16 = 0$$

$$(x+4)(x-4)=0$$

11)
$$x^3 + 4x^2 + x + 4 = 0$$

 $(x+4)(x^2+1) = 0$

12)
$$x^3 + x^2 - 4x - 4 = 0$$

 $(x+1)(x-2)(x+2) = 0$

13)
$$x^4 - 9x^2 + 14 = 0$$

 $(x^2 - 7)(x^2 - 2) = 0$

14)
$$x^4 + 2x^2 - 8 = 0$$

 $(x^2 + 4)(x^2 - 2) = 0$

15)
$$x^4 - 27x = 0$$

 $x(x-3)(x^2 + 3x + 9) = 0$

16)
$$x^4 - 8x = 0$$

 $x(x-2)(x^2 + 2x + 4) = 0$

17)
$$-125x^4 + 27x = 0$$

 $x(5x-3)(-25x^2 - 15x - 9) = 0$

18)
$$8x^4 + 27x = 0$$

 $x(2x+3)(4x^2 - 6x + 9) = 0$

1)
$$-2 - n^2$$

2)
$$-8k^7 + 9k^8$$

3)
$$-5n + 6$$

$$4) -8$$

5)
$$(3p+1)(8p+7)$$

6)
$$(3v+1)(8v+6)$$

7)
$$(-6x^2 + 3x + 8)(4x^2 - 8x + 3)$$

8)
$$(7x^2 - 8y)^2$$

9)
$$x^2 + 3x + 2 = 0$$

10)
$$x^2 - 1 = 0$$

11)
$$x^3 + 5x^2 + 3x + 15 = 0$$

12)
$$x^3 + 2x^2 - 5x - 10 = 0$$

13)
$$x^4 - 13x^2 + 42 = 0$$

14)
$$x^4 - 11x^2 + 28 = 0$$

15)
$$x^4 - x = 0$$

16)
$$x^4 + 64x = 0$$

17)
$$64x^4 + 27x = 0$$

18)
$$-27x^4 + 64x = 0$$

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1)
$$-2 - n^2$$

quadratic binomial

2)
$$-8k^7 + 9k^8$$

eighth degree binomial

3)
$$-5n + 6$$

linear binomial

$$4) -8$$

constant monomial

Find each product.

5)
$$(3p+1)(8p+7)$$

$$24p^2 + 29p + 7$$

6)
$$(3v+1)(8v+6)$$

$$24v^2 + 26v + 6$$

7)
$$(-6x^2 + 3x + 8)(4x^2 - 8x + 3)$$

-24 $x^4 + 60x^3 - 10x^2 - 55x + 24$

8)
$$(7x^2 - 8y)^2$$

 $49x^4 - 112x^2y + 64y^2$

9)
$$x^2 + 3x + 2 = 0$$

$$(x+1)(x+2)=0$$

10)
$$x^2 - 1 = 0$$

$$(x+1)(x-1)=0$$

11)
$$x^3 + 5x^2 + 3x + 15 = 0$$

 $(x+5)(x^2+3) = 0$

12)
$$x^3 + 2x^2 - 5x - 10 = 0$$

 $(x+2)(x^2-5) = 0$

13)
$$x^4 - 13x^2 + 42 = 0$$

 $(x^2 - 7)(x^2 - 6) = 0$

14)
$$x^4 - 11x^2 + 28 = 0$$

 $(x-2)(x+2)(x^2-7) = 0$

15)
$$x^4 - x = 0$$

 $x(x-1)(x^2 + x + 1) = 0$

16)
$$x^4 + 64x = 0$$

 $x(x+4)(x^2 - 4x + 16) = 0$

17)
$$64x^4 + 27x = 0$$

 $x(4x+3)(16x^2 - 12x + 9) = 0$

18)
$$-27x^4 + 64x = 0$$

 $x(3x-4)(-9x^2 - 12x - 16) = 0$

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1)
$$-4 - 7x^6 + 7x^3 - 9x^4 - 8x^2$$

2)
$$-3x^3$$

3)
$$-9p - 4p^3 - 6 - 9p^2$$

4)
$$8x + 8x^4 - 4x^2 - 2$$

Find each product.

5)
$$(8k-1)(3k-4)$$

6)
$$(4x-8)(4x+8)$$

7)
$$(-4n^2 - 6n - 6)(-3n^2 - n - 6)$$

8)
$$(-6x - 4y)^2$$

9)
$$x^2 + x - 6 = 0$$

10)
$$x^2 - 3x + 2 = 0$$

11)
$$x^3 - 3x^2 - 5x + 15 = 0$$

12)
$$x^3 - 3x^2 + 2x - 6 = 0$$

13)
$$x^4 + 15x^2 + 56 = 0$$

14)
$$x^4 + 3x^2 - 40 = 0$$

15)
$$x^4 - 125x = 0$$

16)
$$x^4 + 64x = 0$$

17)
$$8x^4 - 125x = 0$$

18)
$$64x^4 - 27x = 0$$

1)
$$-4 - 7x^6 + 7x^3 - 9x^4 - 8x^2$$

sixth degree polynomial with five terms

2)
$$-3x^3$$

cubic monomial

3)
$$-9p - 4p^3 - 6 - 9p^2$$

cubic polynomial with four terms

4)
$$8x + 8x^4 - 4x^2 - 2$$

quartic polynomial with four terms

Find each product.

5)
$$(8k-1)(3k-4)$$

$$24k^2 - 35k + 4$$

6)
$$(4x-8)(4x+8)$$

$$16x^2 - 64$$

7)
$$(-4n^2 - 6n - 6)(-3n^2 - n - 6)$$

$$12n^4 + 22n^3 + 48n^2 + 42n + 36$$

8)
$$(-6x - 4y)^2$$

$$36x^2 + 48xy + 16y^2$$

9)
$$x^2 + x - 6 = 0$$

$$(x+3)(x-2)=0$$

10)
$$x^2 - 3x + 2 = 0$$

$$(x-2)(x-1)=0$$

11)
$$x^3 - 3x^2 - 5x + 15 = 0$$

 $(x - 3)(x^2 - 5) = 0$

12)
$$x^3 - 3x^2 + 2x - 6 = 0$$

 $(x - 3)(x^2 + 2) = 0$

13)
$$x^4 + 15x^2 + 56 = 0$$

 $(x^2 + 8)(x^2 + 7) = 0$

14)
$$x^4 + 3x^2 - 40 = 0$$

 $(x^2 + 8)(x^2 - 5) = 0$

15)
$$x^4 - 125x = 0$$

 $x(x-5)(x^2 + 5x + 25) = 0$

16)
$$x^4 + 64x = 0$$

 $x(x+4)(x^2 - 4x + 16) = 0$

17)
$$8x^4 - 125x = 0$$

 $x(2x - 5)(4x^2 + 10x + 25) = 0$

18)
$$64x^4 - 27x = 0$$

 $x(4x - 3)(16x^2 + 12x + 9) = 0$

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2)
$$-4k^7 - 10 - 10k^2 + k^5 - 7k^6 + 10k^3$$

3)
$$-7 - 10x^2$$

4)
$$n^6$$

Find each product.

5)
$$(6x-7)(x+8)$$

6)
$$(n+8)(2n+7)$$

7)
$$(6v^2 + 2v - 5)(6v^2 - 6v + 2)$$

8)
$$(2v - 9u)(2v + 9u)$$

9)
$$x^2 - 5x + 4 = 0$$

10)
$$x^2 - x - 12 = 0$$

11)
$$x^3 - 3x^2 + 3x - 9 = 0$$

12)
$$x^3 + 4x^2 - 2x - 8 = 0$$

13)
$$x^4 - 7x^2 + 12 = 0$$

14)
$$x^4 + 12x^2 + 32 = 0$$

15)
$$x^4 - 27x = 0$$

16)
$$x^4 + 27x = 0$$

17)
$$27x^4 - 64x = 0$$

18)
$$27x^4 - 8x = 0$$

linear monomial

2)
$$-4k^7 - 10 - 10k^2 + k^5 - 7k^6 + 10k^3$$

seventh degree polynomial with six terms

3)
$$-7 - 10x^2$$

quadratic binomial

4)
$$n^6$$

sixth degree monomial

Find each product.

5)
$$(6x-7)(x+8)$$

$$6x^2 + 41x - 56$$

6)
$$(n+8)(2n+7)$$

$$2n^2 + 23n + 56$$

7)
$$(6v^2 + 2v - 5)(6v^2 - 6v + 2)$$

$$36v^4 - 24v^3 - 30v^2 + 34v - 10$$

8)
$$(2v - 9u)(2v + 9u)$$

$$4v^2 - 81u^2$$

9)
$$x^2 - 5x + 4 = 0$$

$$(x-4)(x-1)=0$$

10)
$$x^2 - x - 12 = 0$$

$$(x-4)(x+3)=0$$

11)
$$x^3 - 3x^2 + 3x - 9 = 0$$

 $(x - 3)(x^2 + 3) = 0$

12)
$$x^3 + 4x^2 - 2x - 8 = 0$$

 $(x+4)(x^2-2) = 0$

13)
$$x^4 - 7x^2 + 12 = 0$$

 $(x^2 - 3)(x - 2)(x + 2) = 0$

14)
$$x^4 + 12x^2 + 32 = 0$$

 $(x^2 + 4)(x^2 + 8) = 0$

15)
$$x^4 - 27x = 0$$

 $x(x-3)(x^2 + 3x + 9) = 0$

16)
$$x^4 + 27x = 0$$

 $x(x+3)(x^2 - 3x + 9) = 0$

17)
$$27x^4 - 64x = 0$$

 $x(3x - 4)(9x^2 + 12x + 16) = 0$

18)
$$27x^4 - 8x = 0$$

 $x(3x - 2)(9x^2 + 6x + 4) = 0$

1)
$$-2k$$

2)
$$3b^3 + 9b^2 + 10 - b$$

3)
$$-9n^4$$

5)
$$(m-7)(5m+7)$$

6)
$$(7m+1)(4m+5)$$

7)
$$(-6a^2 - 4a + 5)(-4a^2 + 4a - 1)$$

8)
$$(7u + 3v^2)^2$$

9)
$$x^2 - 5x + 6 = 0$$

10)
$$x^2 + 10x + 25 = 0$$

11)
$$x^3 + 3x^2 + 4x + 12 = 0$$

12)
$$x^3 - 3x^2 - 3x + 9 = 0$$

13)
$$x^4 + x^2 - 12 = 0$$

14)
$$x^4 - 7x^2 + 6 = 0$$

15)
$$x^4 + 125x = 0$$

16)
$$x^4 + 27x = 0$$

17)
$$8x^4 - 27x = 0$$

$$18) -125x^4 + 27x = 0$$

1)
$$-2k$$

linear monomial

2)
$$3b^3 + 9b^2 + 10 - b$$

cubic polynomial with four terms

3)
$$-9n^4$$

quartic monomial

$$4) -1$$

constant monomial

Find each product.

5)
$$(m-7)(5m+7)$$

$$5m^2 - 28m - 49$$

6)
$$(7m+1)(4m+5)$$

$$28m^2 + 39m + 5$$

7)
$$(-6a^2 - 4a + 5)(-4a^2 + 4a - 1)$$

$$24a^4 - 8a^3 - 30a^2 + 24a - 5$$

8)
$$(7u + 3v^2)^2$$

$$49u^2 + 42uv^2 + 9v^4$$

9)
$$x^2 - 5x + 6 = 0$$

$$(x-3)(x-2)=0$$

10)
$$x^2 + 10x + 25 = 0$$

$$(x+5)^2=0$$

11)
$$x^3 + 3x^2 + 4x + 12 = 0$$

 $(x+3)(x^2+4) = 0$

12)
$$x^3 - 3x^2 - 3x + 9 = 0$$

 $(x - 3)(x^2 - 3) = 0$

13)
$$x^4 + x^2 - 12 = 0$$

 $(x^2 + 4)(x^2 - 3) = 0$

14)
$$x^4 - 7x^2 + 6 = 0$$

 $(x-1)(x+1)(x^2-6) = 0$

15)
$$x^4 + 125x = 0$$

 $x(x+5)(x^2 - 5x + 25) = 0$

16)
$$x^4 + 27x = 0$$

 $x(x+3)(x^2 - 3x + 9) = 0$

17)
$$8x^4 - 27x = 0$$

 $x(2x-3)(4x^2 + 6x + 9) = 0$

18)
$$-125x^4 + 27x = 0$$

 $x(5x-3)(-25x^2 - 15x - 9) = 0$

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1)
$$-2n^2 + 5n$$

2)
$$7m + 6m^2$$

3)
$$5v^5 - 10v^3 + v^2 - 7v - 6v^4 + 5v^7$$

4)
$$3 + 6m^6 + 6m^8 - 5m^4 - 6m^5$$

Find each product.

5)
$$(5b+7)(b-1)$$

6)
$$(7r+6)(3r-5)$$

7)
$$(8x^2 + 7x + 8)(5x^2 - 6x + 5)$$

8)
$$(4m+n)(4m-n)$$

9)
$$x^2 + x - 6 = 0$$

$$10) \ x^2 + 2x - 15 = 0$$

11)
$$x^3 + 5x^2 - 3x - 15 = 0$$

12)
$$x^3 + 2x^2 - 5x - 10 = 0$$

13)
$$x^4 + 4x^2 - 12 = 0$$

14)
$$x^4 + 11x^2 + 30 = 0$$

15)
$$x^4 - 125x = 0$$

16)
$$x^4 + 125x = 0$$

17)
$$-27x^4 + 8x = 0$$

18)
$$27x^4 - 64x = 0$$

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1)
$$-2n^2 + 5n$$

quadratic binomial

2)
$$7m + 6m^2$$

quadratic binomial

3)
$$5v^5 - 10v^3 + v^2 - 7v - 6v^4 + 5v^7$$

seventh degree polynomial with six terms

4)
$$3 + 6m^6 + 6m^8 - 5m^4 - 6m^5$$

eighth degree polynomial with five terms

Find each product.

5)
$$(5b+7)(b-1)$$

$$5b^2 + 2b - 7$$

6)
$$(7r+6)(3r-5)$$

$$21r^2 - 17r - 30$$

7)
$$(8x^2 + 7x + 8)(5x^2 - 6x + 5)$$

$$40x^4 - 13x^3 + 38x^2 - 13x + 40$$

8)
$$(4m+n)(4m-n)$$

$$16m^2 - n^2$$

9)
$$x^2 + x - 6 = 0$$

$$(x+3)(x-2)=0$$

10)
$$x^2 + 2x - 15 = 0$$

$$(x+5)(x-3)=0$$

11)
$$x^3 + 5x^2 - 3x - 15 = 0$$

 $(x+5)(x^2-3) = 0$

12)
$$x^3 + 2x^2 - 5x - 10 = 0$$

 $(x+2)(x^2-5) = 0$

13)
$$x^4 + 4x^2 - 12 = 0$$

 $(x^2 - 2)(x^2 + 6) = 0$

14)
$$x^4 + 11x^2 + 30 = 0$$

 $(x^2 + 5)(x^2 + 6) = 0$

15)
$$x^4 - 125x = 0$$

 $x(x-5)(x^2 + 5x + 25) = 0$

16)
$$x^4 + 125x = 0$$

 $x(x+5)(x^2 - 5x + 25) = 0$

17)
$$-27x^4 + 8x = 0$$

 $x(3x-2)(-9x^2 - 6x - 4) = 0$

18)
$$27x^4 - 64x = 0$$

 $x(3x - 4)(9x^2 + 12x + 16) = 0$

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1)
$$2b^4 - 10b^3$$

$$2) -1$$

3)
$$-8 + 9k^3 + 10k^7 + 10k$$

4)
$$-4n^2 - n^4 - 5n + 4 + 5n^3$$

Find each product.

5)
$$(2x+8)(7x+7)$$

6)
$$(7x-5)(7x+1)$$

7)
$$(-6v^2 - 2v - 7)(3v^2 + 8v - 1)$$

8)
$$(-10x - 9y)^2$$

9)
$$x^3 + 7x^2 + 10x = 0$$

10)
$$x^2 + 5x + 4 = 0$$

11)
$$x^3 + 3x^2 + x + 3 = 0$$

12)
$$x^3 - 5x^2 + 5x - 25 = 0$$

13)
$$x^4 + 2x^2 - 15 = 0$$

14)
$$x^4 + x^2 - 42 = 0$$

15)
$$x^4 - 64x = 0$$

16)
$$x^4 + 8x = 0$$

17)
$$-27x^4 + 64x = 0$$

18)
$$125x^4 + 8x = 0$$

1)
$$2b^4 - 10b^3$$

quartic binomial

$$2) -1$$

constant monomial

3)
$$-8 + 9k^3 + 10k^7 + 10k$$

seventh degree polynomial with four terms

4)
$$-4n^2 - n^4 - 5n + 4 + 5n^3$$

quartic polynomial with five terms

Find each product.

5)
$$(2x+8)(7x+7)$$

$$14x^2 + 70x + 56$$

6)
$$(7x-5)(7x+1)$$

$$49x^2 - 28x - 5$$

7)
$$(-6v^2 - 2v - 7)(3v^2 + 8v - 1)$$

-18 $v^4 - 54v^3 - 31v^2 - 54v + 7$

8)
$$(-10x - 9y)^2$$

$$100x^2 + 180xy + 81y^2$$

9)
$$x^3 + 7x^2 + 10x = 0$$

$$x(x+5)(x+2)=0$$

10)
$$x^2 + 5x + 4 = 0$$

$$(x+1)(x+4)=0$$

11)
$$x^3 + 3x^2 + x + 3 = 0$$

 $(x+3)(x^2+1) = 0$

12)
$$x^3 - 5x^2 + 5x - 25 = 0$$

 $(x - 5)(x^2 + 5) = 0$

13)
$$x^4 + 2x^2 - 15 = 0$$

 $(x^2 + 5)(x^2 - 3) = 0$

14)
$$x^4 + x^2 - 42 = 0$$

 $(x^2 + 7)(x^2 - 6) = 0$

15)
$$x^4 - 64x = 0$$

 $x(x-4)(x^2 + 4x + 16) = 0$

16)
$$x^4 + 8x = 0$$

 $x(x+2)(x^2 - 2x + 4) = 0$

17)
$$-27x^4 + 64x = 0$$

 $x(3x-4)(-9x^2 - 12x - 16) = 0$

18)
$$125x^4 + 8x = 0$$

 $x(5x + 2)(25x^2 - 10x + 4) = 0$

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1)
$$9n^4 + 4n^8 + 7n^2 - 10n + 2n^7$$

2)
$$-8x^6$$

3)
$$-6n-5-2n^3+2n^2-8n^6$$

4)
$$9 - 3k^4 - 2k^5$$

Find each product.

5)
$$(4x+3)(8x-7)$$

6)
$$(7p-3)(7p-5)$$

7)
$$(8x^2 - 2x - 7)(6x^2 + 8x - 8)$$

8)
$$(2a-10b)(2a+10b)$$

9)
$$x^2 + 6x + 8 = 0$$

10)
$$x^3 + x^2 - 6x = 0$$

11)
$$x^3 - 5x^2 - 2x + 10 = 0$$

12)
$$x^3 + x^2 - x - 1 = 0$$

13)
$$x^4 - 12x^2 + 27 = 0$$

14)
$$x^4 + 13x^2 + 40 = 0$$

15)
$$x^4 - x = 0$$

16)
$$x^4 - 27x = 0$$

17)
$$125x^4 - 64x = 0$$

18)
$$125x^4 + 8x = 0$$

1)
$$9n^4 + 4n^8 + 7n^2 - 10n + 2n^7$$

eighth degree polynomial with five terms

2)
$$-8x^6$$

sixth degree monomial

3)
$$-6n-5-2n^3+2n^2-8n^6$$

sixth degree polynomial with five terms

4)
$$9 - 3k^4 - 2k^5$$

quintic trinomial

Find each product.

5)
$$(4x+3)(8x-7)$$

$$32x^2 - 4x - 21$$

6)
$$(7p-3)(7p-5)$$

$$49p^2 - 56p + 15$$

7)
$$(8x^2 - 2x - 7)(6x^2 + 8x - 8)$$

$$48x^4 + 52x^3 - 122x^2 - 40x + 56$$

8)
$$(2a - 10b)(2a + 10b)$$

 $4a^2 - 100b^2$

9)
$$x^2 + 6x + 8 = 0$$

$$(x+2)(x+4)=0$$

10)
$$x^3 + x^2 - 6x = 0$$

$$x(x+3)(x-2)=0$$

11)
$$x^3 - 5x^2 - 2x + 10 = 0$$

 $(x - 5)(x^2 - 2) = 0$

12)
$$x^3 + x^2 - x - 1 = 0$$

 $(x+1)^2(x-1) = 0$

13)
$$x^4 - 12x^2 + 27 = 0$$

 $(x^2 - 3)(x - 3)(x + 3) = 0$

14)
$$x^4 + 13x^2 + 40 = 0$$

 $(x^2 + 5)(x^2 + 8) = 0$

15)
$$x^4 - x = 0$$

 $x(x-1)(x^2 + x + 1) = 0$

16)
$$x^4 - 27x = 0$$

 $x(x-3)(x^2 + 3x + 9) = 0$

17)
$$125x^4 - 64x = 0$$

 $x(5x - 4)(25x^2 + 20x + 16) = 0$

18)
$$125x^4 + 8x = 0$$

 $x(5x + 2)(25x^2 - 10x + 4) = 0$

1)
$$r^5 - 6r^6 - r^7 + 7r - 2r^3$$

2)
$$-4n$$

3)
$$-7m^8$$

4)
$$-10x + 3 - 10x^5 + 6x^3 - 2x^4 - 9x^2$$

5)
$$(5x+8)(2x-7)$$

6)
$$(3n+3)(7n+3)$$

7)
$$(6x^2 - x + 6)(8x^2 + 2x - 6)$$

8)
$$(-8a^2 + 8b)^2$$

9)
$$x^2 + 7x + 10 = 0$$

10)
$$x^2 + 5x + 4 = 0$$

11)
$$x^3 + 3x^2 - x - 3 = 0$$

12)
$$x^3 + 4x^2 + 2x + 8 = 0$$

13)
$$x^4 - 9x^2 + 14 = 0$$

14)
$$x^4 + 3x^2 - 28 = 0$$

15)
$$x^4 + 8x = 0$$

16)
$$x^4 + x = 0$$

17)
$$27x^4 + 8x = 0$$

18)
$$64x^4 - 125x = 0$$

1)
$$r^5 - 6r^6 - r^7 + 7r - 2r^3$$

seventh degree polynomial with five terms

$$2) -4n$$

linear monomial

3)
$$-7m^8$$

eighth degree monomial

4)
$$-10x + 3 - 10x^5 + 6x^3 - 2x^4 - 9x^2$$

quintic polynomial with six terms

Find each product.

5)
$$(5x+8)(2x-7)$$

$$10x^2 - 19x - 56$$

6)
$$(3n+3)(7n+3)$$

$$21n^2 + 30n + 9$$

7)
$$(6x^2 - x + 6)(8x^2 + 2x - 6)$$

$$48x^4 + 4x^3 + 10x^2 + 18x - 36$$

8)
$$(-8a^2 + 8b)^2$$

$$64a^4 - 128a^2b + 64b^2$$

9)
$$x^2 + 7x + 10 = 0$$

$$(x+2)(x+5)=0$$

10)
$$x^2 + 5x + 4 = 0$$

$$(x+1)(x+4) = 0$$

11)
$$x^3 + 3x^2 - x - 3 = 0$$

 $(x+3)(x-1)(x+1) = 0$

12)
$$x^3 + 4x^2 + 2x + 8 = 0$$

 $(x+4)(x^2+2) = 0$

13)
$$x^4 - 9x^2 + 14 = 0$$

 $(x^2 - 2)(x^2 - 7) = 0$

14)
$$x^4 + 3x^2 - 28 = 0$$

 $(x-2)(x+2)(x^2+7) = 0$

15)
$$x^4 + 8x = 0$$

 $x(x+2)(x^2 - 2x + 4) = 0$

16)
$$x^4 + x = 0$$

 $x(x+1)(x^2 - x + 1) = 0$

17)
$$27x^4 + 8x = 0$$

 $x(3x+2)(9x^2 - 6x + 4) = 0$

18)
$$64x^4 - 125x = 0$$

 $x(4x - 5)(16x^2 + 20x + 25) = 0$

$$1) -3$$

2)
$$-x^8 - x^6$$

4)
$$-7p^4 - 5p^7 + 9p^2 - 3 - p^6$$

5)
$$(6b+6)(b+8)$$

6)
$$(4m-1)(8m+4)$$

7)
$$(-2n^2 - 6n + 6)(-6n^2 - 4n - 3)$$

8)
$$(-8m^2-3n^2)^2$$

9)
$$x^2 - 5x + 6 = 0$$

10)
$$x^2 - 2x + 1 = 0$$

11)
$$x^3 - 5x^2 - x + 5 = 0$$

12)
$$x^3 + 4x^2 - 2x - 8 = 0$$

13)
$$x^4 + 11x^2 + 30 = 0$$

14)
$$x^4 - 11x^2 + 28 = 0$$

15)
$$x^4 - 64x = 0$$

16)
$$x^4 - 27x = 0$$

17)
$$125x^4 - 8x = 0$$

18)
$$125x^4 + 8x = 0$$

constant monomial

2)
$$-x^8 - x^6$$

eighth degree binomial

3)
$$-v$$

linear monomial

4)
$$-7p^4 - 5p^7 + 9p^2 - 3 - p^6$$

seventh degree polynomial with five terms

Find each product.

5)
$$(6b+6)(b+8)$$

$$6b^2 + 54b + 48$$

6)
$$(4m-1)(8m+4)$$

$$32m^2 + 8m - 4$$

7)
$$(-2n^2 - 6n + 6)(-6n^2 - 4n - 3)$$

$$12n^4 + 44n^3 - 6n^2 - 6n - 18$$

8)
$$(-8m^2-3n^2)^2$$

$$64m^4 + 48m^2n^2 + 9n^4$$

9)
$$x^2 - 5x + 6 = 0$$

$$(x-3)(x-2)=0$$

10)
$$x^2 - 2x + 1 = 0$$

$$(x-1)^2=0$$

11)
$$x^3 - 5x^2 - x + 5 = 0$$

 $(x - 5)(x - 1)(x + 1) = 0$

12)
$$x^3 + 4x^2 - 2x - 8 = 0$$

 $(x+4)(x^2-2) = 0$

13)
$$x^4 + 11x^2 + 30 = 0$$

 $(x^2 + 6)(x^2 + 5) = 0$

14)
$$x^4 - 11x^2 + 28 = 0$$

 $(x-2)(x+2)(x^2-7) = 0$

15)
$$x^4 - 64x = 0$$

 $x(x-4)(x^2 + 4x + 16) = 0$

16)
$$x^4 - 27x = 0$$

 $x(x-3)(x^2 + 3x + 9) = 0$

17)
$$125x^4 - 8x = 0$$

 $x(5x - 2)(25x^2 + 10x + 4) = 0$

18)
$$125x^4 + 8x = 0$$

 $x(5x + 2)(25x^2 - 10x + 4) = 0$

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1)
$$-x + 8$$

$$2) -4$$

3)
$$-9r^3 + 9r^7 + 7r^2$$

4)
$$-3k + k^3 + 5 - 4k^2$$

Find each product.

5)
$$(2x+3)(8x-1)$$

6)
$$(r-3)(2r+3)$$

7)
$$(4b^2 + 7b - 1)(7b^2 + b + 7)$$

8)
$$(-9u - 4v)(-9u + 4v)$$

9)
$$x^2 + x - 12 = 0$$

10)
$$x^3 + 4x^2 + 4x = 0$$

11)
$$x^3 + 3x^2 + 3x + 9 = 0$$

12)
$$x^3 + x^2 - x - 1 = 0$$

13)
$$x^4 + 14x^2 + 45 = 0$$

14)
$$x^4 - 4x^2 - 5 = 0$$

15)
$$x^4 - 8x = 0$$

16)
$$x^4 + 125x = 0$$

17)
$$-64x^4 + 125x = 0$$

18)
$$125x^4 + 64x = 0$$

1)
$$-x + 8$$

linear binomial

$$2) -4$$

constant monomial

3)
$$-9r^3 + 9r^7 + 7r^2$$

seventh degree trinomial

4)
$$-3k + k^3 + 5 - 4k^2$$

cubic polynomial with four terms

Find each product.

5)
$$(2x+3)(8x-1)$$

 $16x^2 + 22x - 3$

6)
$$(r-3)(2r+3)$$

$$2r^2 - 3r - 9$$

7)
$$(4b^2 + 7b - 1)(7b^2 + b + 7)$$

$$28b^4 + 53b^3 + 28b^2 + 48b - 7$$

8)
$$(-9u - 4v)(-9u + 4v)$$

$$81u^2 - 16v^2$$

9)
$$x^2 + x - 12 = 0$$

$$(x-3)(x+4)=0$$

10)
$$x^3 + 4x^2 + 4x = 0$$

$$x(x+2)^2=0$$

11)
$$x^3 + 3x^2 + 3x + 9 = 0$$

 $(x+3)(x^2+3) = 0$

12)
$$x^3 + x^2 - x - 1 = 0$$

 $(x+1)^2(x-1) = 0$

13)
$$x^4 + 14x^2 + 45 = 0$$

 $(x^2 + 9)(x^2 + 5) = 0$

14)
$$x^4 - 4x^2 - 5 = 0$$

 $(x^2 - 5)(x^2 + 1) = 0$

15)
$$x^4 - 8x = 0$$

 $x(x-2)(x^2 + 2x + 4) = 0$

16)
$$x^4 + 125x = 0$$

 $x(x+5)(x^2 - 5x + 25) = 0$

17)
$$-64x^4 + 125x = 0$$

 $x(4x - 5)(-16x^2 - 20x - 25) = 0$

18)
$$125x^4 + 64x = 0$$

 $x(5x + 4)(25x^2 - 20x + 16) = 0$

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1)
$$8n - 7n^2$$

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

4)
$$2n^5$$

Find each product.

5)
$$(8x+5)(5x-4)$$

6)
$$(3n-1)(4n-6)$$

7)
$$(-x^2-4x+5)(-3x^2-4x-2)$$

8)
$$(-6n-2m)^2$$

9)
$$x^2 + 4x + 3 = 0$$

10)
$$x^2 + 5x + 6 = 0$$

11)
$$x^3 + 4x^2 - 5x - 20 = 0$$

12)
$$x^3 + x^2 + 4x + 4 = 0$$

13)
$$x^4 + 8x^2 + 15 = 0$$

14)
$$x^4 + 13x^2 + 36 = 0$$

15)
$$x^4 + 64x = 0$$

16)
$$x^4 - 64x = 0$$

17)
$$64x^4 + 27x = 0$$

18)
$$27x^4 + 64x = 0$$

1)
$$8n - 7n^2$$

quadratic binomial

constant monomial

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

quartic polynomial with five terms

4)
$$2n^5$$

quintic monomial

Find each product.

5)
$$(8x+5)(5x-4)$$

$$40x^2 - 7x - 20$$

6)
$$(3n-1)(4n-6)$$

$$12n^2 - 22n + 6$$

7)
$$(-x^2 - 4x + 5)(-3x^2 - 4x - 2)$$

$$3x^4 + 16x^3 + 3x^2 - 12x - 10$$

8)
$$(-6n-2m)^2$$

$$36n^2 + 24nm + 4m^2$$

9)
$$x^2 + 4x + 3 = 0$$

$$(x+3)(x+1)=0$$

10)
$$x^2 + 5x + 6 = 0$$

$$(x+2)(x+3)=0$$

11)
$$x^3 + 4x^2 - 5x - 20 = 0$$

 $(x+4)(x^2-5) = 0$

12)
$$x^3 + x^2 + 4x + 4 = 0$$

 $(x+1)(x^2+4) = 0$

13)
$$x^4 + 8x^2 + 15 = 0$$

 $(x^2 + 5)(x^2 + 3) = 0$

14)
$$x^4 + 13x^2 + 36 = 0$$

 $(x^2 + 9)(x^2 + 4) = 0$

15)
$$x^4 + 64x = 0$$

 $x(x+4)(x^2 - 4x + 16) = 0$

16)
$$x^4 - 64x = 0$$

 $x(x-4)(x^2 + 4x + 16) = 0$

17)
$$64x^4 + 27x = 0$$

 $x(4x+3)(16x^2 - 12x + 9) = 0$

18)
$$27x^4 + 64x = 0$$

 $x(3x + 4)(9x^2 - 12x + 16) = 0$

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1)
$$-4 + 6n^3 + 8n^2$$

2)
$$-4n$$

3)
$$5n^3 + 8n - 5 - 7n^5 + 9n^2$$

$$4) -10$$

Find each product.

5)
$$(3b+4)(6b+4)$$

6)
$$(8m-6)(7m-7)$$

7)
$$(5x^2 - 4x + 1)(5x^2 + x - 8)$$

8)
$$(-4x - 3y)(-4x + 3y)$$

9)
$$x^2 - 5x + 4 = 0$$

10)
$$x^2 - 4x + 4 = 0$$

11)
$$x^3 + 4x^2 - x - 4 = 0$$

12)
$$x^3 + 3x^2 - 4x - 12 = 0$$

13)
$$x^4 - 3x^2 - 4 = 0$$

14)
$$x^4 - 7x^2 + 12 = 0$$

15)
$$x^4 + 27x = 0$$

16)
$$x^4 + x = 0$$

17)
$$125x^4 + 27x = 0$$

18)
$$8x^4 - 125x = 0$$

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1)
$$-4 + 6n^3 + 8n^2$$

cubic trinomial

2)
$$-4n$$

linear monomial

3)
$$5n^3 + 8n - 5 - 7n^5 + 9n^2$$

quintic polynomial with five terms

$$4) -10$$

constant monomial

Find each product.

5)
$$(3b+4)(6b+4)$$

 $18b^2 + 36b + 16$

6)
$$(8m-6)(7m-7)$$

 $56m^2 - 98m + 42$

7)
$$(5x^2 - 4x + 1)(5x^2 + x - 8)$$

 $25x^4 - 15x^3 - 39x^2 + 33x - 8$

8)
$$(-4x - 3y)(-4x + 3y)$$

 $16x^2 - 9y^2$

9)
$$x^2 - 5x + 4 = 0$$

$$(x-4)(x-1)=0$$

10)
$$x^2 - 4x + 4 = 0$$

$$(x-2)^2=0$$

11)
$$x^3 + 4x^2 - x - 4 = 0$$

 $(x+4)(x-1)(x+1) = 0$

12)
$$x^3 + 3x^2 - 4x - 12 = 0$$

 $(x+3)(x-2)(x+2) = 0$

13)
$$x^4 - 3x^2 - 4 = 0$$

 $(x-2)(x+2)(x^2+1) = 0$

14)
$$x^4 - 7x^2 + 12 = 0$$

 $(x^2 - 3)(x - 2)(x + 2) = 0$

15)
$$x^4 + 27x = 0$$

 $x(x+3)(x^2 - 3x + 9) = 0$

16)
$$x^4 + x = 0$$

 $x(x+1)(x^2 - x + 1) = 0$

17)
$$125x^4 + 27x = 0$$

 $x(5x+3)(25x^2 - 15x + 9) = 0$

18)
$$8x^4 - 125x = 0$$

 $x(2x - 5)(4x^2 + 10x + 25) = 0$

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1)
$$-10b^2 + 8$$

$$2) -3$$

3)
$$-3n^7 - 3n^5 + 8 + 9n^3 - 2n$$

4)
$$-6n^5 - 4n^3 + 5n - 5n^8 - 10n^7$$

Find each product.

5)
$$(4b-8)(2b-2)$$

6)
$$(3r+6)(7r+7)$$

7)
$$(-8r^2 + 3r - 1)(-r^2 + 4r + 5)$$

8)
$$(6x + y^2)^2$$

9)
$$x^2 + 5x + 4 = 0$$

10)
$$x^3 + 3x^2 - 10x = 0$$

11)
$$x^3 + x^2 - 2x - 2 = 0$$

12)
$$x^3 + 3x^2 - 5x - 15 = 0$$

13)
$$x^4 - x^2 - 56 = 0$$

14)
$$x^4 - 12x^2 + 27 = 0$$

15)
$$x^4 - 27x = 0$$

16)
$$x^4 + 8x = 0$$

$$17) -125x^4 + 27x = 0$$

$$18) -125x^4 + 8x = 0$$

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1)
$$-10b^2 + 8$$

quadratic binomial

$$2) -3$$

constant monomial

3)
$$-3n^7 - 3n^5 + 8 + 9n^3 - 2n$$

seventh degree polynomial with five terms

4)
$$-6n^5 - 4n^3 + 5n - 5n^8 - 10n^7$$

eighth degree polynomial with five terms

Find each product.

5)
$$(4b-8)(2b-2)$$

$$8b^2 - 24b + 16$$

6)
$$(3r+6)(7r+7)$$

$$21r^2 + 63r + 42$$

7)
$$(-8r^2 + 3r - 1)(-r^2 + 4r + 5)$$

$$8r^4 - 35r^3 - 27r^2 + 11r - 5$$

8)
$$(6x + y^2)^2$$

$$36x^2 + 12xy^2 + y^4$$

9)
$$x^2 + 5x + 4 = 0$$

$$(x+4)(x+1)=0$$

10)
$$x^3 + 3x^2 - 10x = 0$$

$$x(x+5)(x-2)=0$$

11)
$$x^3 + x^2 - 2x - 2 = 0$$

 $(x+1)(x^2-2) = 0$

12)
$$x^3 + 3x^2 - 5x - 15 = 0$$

 $(x+3)(x^2-5) = 0$

13)
$$x^4 - x^2 - 56 = 0$$

 $(x^2 + 7)(x^2 - 8) = 0$

14)
$$x^4 - 12x^2 + 27 = 0$$

 $(x-3)(x+3)(x^2-3) = 0$

15)
$$x^4 - 27x = 0$$

 $x(x-3)(x^2 + 3x + 9) = 0$

16)
$$x^4 + 8x = 0$$

 $x(x+2)(x^2 - 2x + 4) = 0$

17)
$$-125x^4 + 27x = 0$$

 $x(5x-3)(-25x^2 - 15x - 9) = 0$

18)
$$-125x^4 + 8x = 0$$

 $x(5x - 2)(-25x^2 - 10x - 4) = 0$

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1)
$$7r^2 + 2r - 9r^3$$

2)
$$6x^2$$

3)
$$-10n^6 - n^7$$

Find each product.

5)
$$(5n+8)(2n+8)$$

6)
$$(7m-4)(7m-6)$$

7)
$$(-2r^2 - r - 8)(-2r^2 - 6r - 6)$$

8)
$$(-2x + 6y^2)^2$$

9)
$$x^2 + 5x + 6 = 0$$

10)
$$x^2 + 7x + 10 = 0$$

11)
$$x^3 - 4x^2 - x + 4 = 0$$

12)
$$x^3 + x^2 + 2x + 2 = 0$$

13)
$$x^4 + 14x^2 + 45 = 0$$

14)
$$x^4 + 4x^2 - 32 = 0$$

15)
$$x^4 + 64x = 0$$

16)
$$x^4 + 8x = 0$$

$$17) -125x^4 + 64x = 0$$

18)
$$8x^4 + 27x = 0$$

1)
$$7r^2 + 2r - 9r^3$$

cubic trinomial

2)
$$6x^2$$

quadratic monomial

3)
$$-10n^6 - n^7$$

seventh degree binomial

constant monomial

Find each product.

5)
$$(5n+8)(2n+8)$$

$$10n^2 + 56n + 64$$

6)
$$(7m-4)(7m-6)$$

$$49m^2 - 70m + 24$$

7)
$$(-2r^2 - r - 8)(-2r^2 - 6r - 6)$$

$$4r^4 + 14r^3 + 34r^2 + 54r + 48$$

8)
$$(-2x + 6y^2)^2$$

$$4x^2 - 24xy^2 + 36y^4$$

9)
$$x^2 + 5x + 6 = 0$$

$$(x+2)(x+3) = 0$$

10)
$$x^2 + 7x + 10 = 0$$

$$(x+5)(x+2)=0$$

11)
$$x^3 - 4x^2 - x + 4 = 0$$

 $(x-4)(x-1)(x+1) = 0$

12)
$$x^3 + x^2 + 2x + 2 = 0$$

 $(x+1)(x^2+2) = 0$

13)
$$x^4 + 14x^2 + 45 = 0$$

 $(x^2 + 9)(x^2 + 5) = 0$

14)
$$x^4 + 4x^2 - 32 = 0$$

 $(x-2)(x+2)(x^2+8) = 0$

15)
$$x^4 + 64x = 0$$

 $x(x+4)(x^2 - 4x + 16) = 0$

16)
$$x^4 + 8x = 0$$

 $x(x+2)(x^2 - 2x + 4) = 0$

17)
$$-125x^4 + 64x = 0$$

 $x(5x - 4)(-25x^2 - 20x - 16) = 0$

18)
$$8x^4 + 27x = 0$$

 $x(2x+3)(4x^2 - 6x + 9) = 0$

1)
$$-7v^7$$

2)
$$-a^3 + 6a^2$$

3)
$$6 + 10x^3$$

4)
$$-9x^2 + 5$$

5)
$$(4n+2)(8n-8)$$

6)
$$(5n-8)(5n+5)$$

7)
$$(a^2 + 7a - 6)(2a^2 - a - 3)$$

8)
$$(5x^2 - y^2)^2$$

9)
$$x^3 - 6x^2 + 5x = 0$$

10)
$$x^2 + 3x - 4 = 0$$

11)
$$x^3 - 4x^2 + x - 4 = 0$$

12)
$$x^3 - x^2 - 2x + 2 = 0$$

13)
$$x^4 + 4x^2 - 45 = 0$$

14)
$$x^4 + 2x^2 - 3 = 0$$

15)
$$x^4 + 64x = 0$$

16)
$$x^4 - 64x = 0$$

17)
$$-64x^4 + 125x = 0$$

18)
$$64x^4 + 125x = 0$$

1)
$$-7v^7$$

seventh degree monomial

2)
$$-a^3 + 6a^2$$

cubic binomial

3)
$$6 + 10x^3$$

cubic binomial

4)
$$-9x^2 + 5$$

quadratic binomial

Find each product.

5)
$$(4n+2)(8n-8)$$

$$32n^2 - 16n - 16$$

6)
$$(5n-8)(5n+5)$$

$$25n^2 - 15n - 40$$

7)
$$(a^2 + 7a - 6)(2a^2 - a - 3)$$

$$2a^4 + 13a^3 - 22a^2 - 15a + 18$$

8)
$$(5x^2 - y^2)^2$$

$$25x^4 - 10x^2y^2 + y^4$$

9)
$$x^3 - 6x^2 + 5x = 0$$

$$x(x-5)(x-1)=0$$

10)
$$x^2 + 3x - 4 = 0$$

$$(x-1)(x+4)=0$$

11)
$$x^3 - 4x^2 + x - 4 = 0$$

 $(x - 4)(x^2 + 1) = 0$

12)
$$x^3 - x^2 - 2x + 2 = 0$$

 $(x-1)(x^2-2) = 0$

13)
$$x^4 + 4x^2 - 45 = 0$$

 $(x^2 - 5)(x^2 + 9) = 0$

14)
$$x^4 + 2x^2 - 3 = 0$$

 $(x^2 + 3)(x - 1)(x + 1) = 0$

15)
$$x^4 + 64x = 0$$

 $x(x+4)(x^2 - 4x + 16) = 0$

16)
$$x^4 - 64x = 0$$

 $x(x-4)(x^2 + 4x + 16) = 0$

17)
$$-64x^4 + 125x = 0$$

 $x(4x - 5)(-16x^2 - 20x - 25) = 0$

18)
$$64x^4 + 125x = 0$$

 $x(4x+5)(16x^2 - 20x + 25) = 0$

1)
$$-2b^2 + 3b^8 - 6b^3 - 3b^7$$

2)
$$-2v^5 - 10v^8 + 7v^6 - 10$$

3)
$$9m^4 - 9m^6 + 5m^5 + 6$$

4)
$$-2n^5$$

5)
$$(4n+4)(8n-4)$$

6)
$$(2x-7)^2$$

7)
$$(8m^2 + 4m + 3)(-7m^2 + 8m + 3)$$

8)
$$(-3x^3 - y^2)^2$$

9)
$$x^2 + 6x + 5 = 0$$

10)
$$x^2 - 8x + 16 = 0$$

11)
$$x^3 - 3x^2 - 4x + 12 = 0$$

12)
$$x^3 + 5x^2 + 2x + 10 = 0$$

13)
$$x^4 - 7x^2 - 18 = 0$$

14)
$$x^4 - 3x^2 - 4 = 0$$

15)
$$x^4 - 125x = 0$$

16)
$$x^4 + 125x = 0$$

$$17) -125x^4 + 64x = 0$$

$$18) -125x^4 + 27x = 0$$

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1)
$$-2b^2 + 3b^8 - 6b^3 - 3b^7$$

eighth degree polynomial with four terms

2)
$$-2v^5 - 10v^8 + 7v^6 - 10$$

eighth degree polynomial with four terms

3)
$$9m^4 - 9m^6 + 5m^5 + 6$$

sixth degree polynomial with four terms

4)
$$-2n^5$$

quintic monomial

Find each product.

5)
$$(4n+4)(8n-4)$$

$$32n^2 + 16n - 16$$

6)
$$(2x-7)^2$$

$$4x^2 - 28x + 49$$

7)
$$(8m^2 + 4m + 3)(-7m^2 + 8m + 3)$$

$$-56m^4 + 36m^3 + 35m^2 + 36m + 9$$

8)
$$(-3x^3 - y^2)^2$$

$$9x^6 + 6x^3y^2 + y^4$$

9)
$$x^2 + 6x + 5 = 0$$

$$(x+1)(x+5)=0$$

10)
$$x^2 - 8x + 16 = 0$$

$$(x-4)^2=0$$

11)
$$x^3 - 3x^2 - 4x + 12 = 0$$

 $(x-3)(x-2)(x+2) = 0$

12)
$$x^3 + 5x^2 + 2x + 10 = 0$$

 $(x+5)(x^2+2) = 0$

13)
$$x^4 - 7x^2 - 18 = 0$$

 $(x-3)(x+3)(x^2+2) = 0$

14)
$$x^4 - 3x^2 - 4 = 0$$

 $(x^2 + 1)(x - 2)(x + 2) = 0$

15)
$$x^4 - 125x = 0$$

 $x(x-5)(x^2 + 5x + 25) = 0$

16)
$$x^4 + 125x = 0$$

 $x(x+5)(x^2 - 5x + 25) = 0$

17)
$$-125x^4 + 64x = 0$$

 $x(5x - 4)(-25x^2 - 20x - 16) = 0$

18)
$$-125x^4 + 27x = 0$$

 $x(5x - 3)(-25x^2 - 15x - 9) = 0$

1)
$$8x^3 - 10 - 6x^2$$

2)
$$10a^6$$

3)
$$4x^5 - 8x - 5x^2 + 6$$

4)
$$-5n^3 + 5n^4 - 3n^5 + 5n - 7 - n^6$$

5)
$$(3x+5)(x-3)$$

6)
$$(3a+3)(4a+6)$$

7)
$$(8x^2 - 5x - 8)(4x^2 + 8x - 4)$$

8)
$$(-4x - 6y)^2$$

9)
$$x^2 - 6x + 5 = 0$$

10)
$$x^3 + 8x^2 + 15x = 0$$

11)
$$x^3 - 3x^2 + 5x - 15 = 0$$

12)
$$x^3 + 5x^2 - 5x - 25 = 0$$

13)
$$x^4 + 3x^2 - 4 = 0$$

14)
$$x^4 - 2x^2 - 3 = 0$$

15)
$$x^4 + x = 0$$

16)
$$x^4 + 8x = 0$$

17)
$$27x^4 + 64x = 0$$

$$18) -8x^4 + 27x = 0$$

1)
$$8x^3 - 10 - 6x^2$$

cubic trinomial

2)
$$10a^6$$

sixth degree monomial

3)
$$4x^5 - 8x - 5x^2 + 6$$

quintic polynomial with four terms

4)
$$-5n^3 + 5n^4 - 3n^5 + 5n - 7 - n^6$$

sixth degree polynomial with six terms

Find each product.

5)
$$(3x+5)(x-3)$$

$$3x^2 - 4x - 15$$

6)
$$(3a+3)(4a+6)$$

$$12a^2 + 30a + 18$$

7)
$$(8x^2 - 5x - 8)(4x^2 + 8x - 4)$$

$$32x^4 + 44x^3 - 104x^2 - 44x + 32$$

8)
$$(-4x - 6y)^2$$

$$16x^2 + 48xy + 36y^2$$

9)
$$x^2 - 6x + 5 = 0$$

$$(x-5)(x-1)=0$$

10)
$$x^3 + 8x^2 + 15x = 0$$

$$x(x+3)(x+5)=0$$

11)
$$x^3 - 3x^2 + 5x - 15 = 0$$

 $(x - 3)(x^2 + 5) = 0$

12)
$$x^3 + 5x^2 - 5x - 25 = 0$$

 $(x+5)(x^2-5) = 0$

13)
$$x^4 + 3x^2 - 4 = 0$$

 $(x^2 + 4)(x - 1)(x + 1) = 0$

14)
$$x^4 - 2x^2 - 3 = 0$$

 $(x^2 + 1)(x^2 - 3) = 0$

15)
$$x^4 + x = 0$$

 $x(x+1)(x^2 - x + 1) = 0$

16)
$$x^4 + 8x = 0$$

 $x(x+2)(x^2 - 2x + 4) = 0$

17)
$$27x^4 + 64x = 0$$

 $x(3x+4)(9x^2 - 12x + 16) = 0$

18)
$$-8x^4 + 27x = 0$$

 $x(2x-3)(-4x^2 - 6x - 9) = 0$

1)
$$10n^3 + 7n^8$$

2)
$$-4x - x^6 - 5x^5 - 6 + 9x^2 - x^3$$

3)
$$8 - 6n^2 - 2n$$

4)
$$8p^{7}$$

5)
$$(7n-3)(6n+4)$$

6)
$$(7m-4)(5m-2)$$

7)
$$(-7m^2 + 8m + 2)(3m^2 + 7m + 5)$$

8)
$$(-10a - 3b)^2$$

9)
$$x^2 + x - 2 = 0$$

10)
$$x^2 + 2x - 8 = 0$$

11)
$$x^3 - 3x^2 - 5x + 15 = 0$$

12)
$$x^3 - 5x^2 - 5x + 25 = 0$$

13)
$$x^4 - 4x^2 + 3 = 0$$

14)
$$x^4 + 9x^2 + 14 = 0$$

15)
$$x^4 - 64x = 0$$

16)
$$x^4 + x = 0$$

$$17) -27x^4 + 125x = 0$$

$$18) -8x^4 + 27x = 0$$

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1)
$$10n^3 + 7n^8$$

eighth degree binomial

2)
$$-4x - x^6 - 5x^5 - 6 + 9x^2 - x^3$$

sixth degree polynomial with six terms

3)
$$8 - 6n^2 - 2n$$

quadratic trinomial

4)
$$8p^{7}$$

seventh degree monomial

Find each product.

5)
$$(7n-3)(6n+4)$$

$$42n^2 + 10n - 12$$

6)
$$(7m-4)(5m-2)$$

$$35m^2 - 34m + 8$$

7)
$$(-7m^2 + 8m + 2)(3m^2 + 7m + 5)$$

 $-21m^4 - 25m^3 + 27m^2 + 54m + 10$

8)
$$(-10a - 3b)^2$$

$$100a^2 + 60ab + 9b^2$$

9)
$$x^2 + x - 2 = 0$$

$$(x-1)(x+2)=0$$

10)
$$x^2 + 2x - 8 = 0$$

$$(x+4)(x-2)=0$$

11)
$$x^3 - 3x^2 - 5x + 15 = 0$$

 $(x-3)(x^2-5) = 0$

12)
$$x^3 - 5x^2 - 5x + 25 = 0$$

 $(x - 5)(x^2 - 5) = 0$

13)
$$x^4 - 4x^2 + 3 = 0$$

 $(x^2 - 3)(x - 1)(x + 1) = 0$

14)
$$x^4 + 9x^2 + 14 = 0$$

 $(x^2 + 7)(x^2 + 2) = 0$

15)
$$x^4 - 64x = 0$$

 $x(x-4)(x^2 + 4x + 16) = 0$

16)
$$x^4 + x = 0$$

 $x(x+1)(x^2 - x + 1) = 0$

17)
$$-27x^4 + 125x = 0$$

 $x(3x-5)(-9x^2 - 15x - 25) = 0$

18)
$$-8x^4 + 27x = 0$$

 $x(2x-3)(-4x^2 - 6x - 9) = 0$

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1)
$$2-4b-6b^2$$

2)
$$-8x^3$$

3)
$$10x - 7x^2$$

Find each product.

5)
$$(v-8)(5v-7)$$

6)
$$(7x-7)(5x+1)$$

7)
$$(5n^2 - 7n + 1)(8n^2 + 5n - 2)$$

8)
$$(4x-2y)(4x+2y)$$

9)
$$x^2 + 6x + 8 = 0$$

10)
$$x^2 + 9x + 20 = 0$$

11)
$$x^3 + 3x^2 + 3x + 9 = 0$$

12)
$$x^3 + 5x^2 - 2x - 10 = 0$$

13)
$$x^4 + 10x^2 + 21 = 0$$

14)
$$x^4 - 13x^2 + 42 = 0$$

15)
$$x^4 + 125x = 0$$

16)
$$x^4 - 64x = 0$$

17)
$$125x^4 - 27x = 0$$

18)
$$27x^4 - 8x = 0$$

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1)
$$2-4b-6b^2$$

quadratic trinomial

2)
$$-8x^3$$

cubic monomial

3)
$$10x - 7x^2$$

quadratic binomial

constant monomial

Find each product.

5)
$$(v-8)(5v-7)$$

$$5v^2 - 47v + 56$$

6)
$$(7x-7)(5x+1)$$

$$35x^2 - 28x - 7$$

7)
$$(5n^2 - 7n + 1)(8n^2 + 5n - 2)$$

$$40n^4 - 31n^3 - 37n^2 + 19n - 2$$

8)
$$(4x-2y)(4x+2y)$$

$$16x^2 - 4y^2$$

9)
$$x^2 + 6x + 8 = 0$$

$$(x+4)(x+2)=0$$

$$10) \ x^2 + 9x + 20 = 0$$

$$(x+4)(x+5) = 0$$

11)
$$x^3 + 3x^2 + 3x + 9 = 0$$

 $(x+3)(x^2+3) = 0$

12)
$$x^3 + 5x^2 - 2x - 10 = 0$$

 $(x+5)(x^2-2) = 0$

13)
$$x^4 + 10x^2 + 21 = 0$$

 $(x^2 + 3)(x^2 + 7) = 0$

14)
$$x^4 - 13x^2 + 42 = 0$$

 $(x^2 - 6)(x^2 - 7) = 0$

15)
$$x^4 + 125x = 0$$

 $x(x+5)(x^2 - 5x + 25) = 0$

16)
$$x^4 - 64x = 0$$

 $x(x-4)(x^2 + 4x + 16) = 0$

17)
$$125x^4 - 27x = 0$$

 $x(5x - 3)(25x^2 + 15x + 9) = 0$

18)
$$27x^4 - 8x = 0$$

 $x(3x - 2)(9x^2 + 6x + 4) = 0$

1)
$$-2b^3 - 9 + 5b^2 - 4b$$

2)
$$7x^3 + 10x^7 + 9x^5 + 9 - 2x^2 + 2x$$

$$3) -5$$

$$4) -10$$

5)
$$(3n-8)(4n+1)$$

6)
$$(2x+7)(8x-4)$$

7)
$$(-3n^2 + 7n + 7)(6n^2 + n + 8)$$

8)
$$(9a + 10b)(9a - 10b)$$

9)
$$x^2 - 3x + 2 = 0$$

10)
$$x^2 + 3x - 4 = 0$$

11)
$$x^3 + 4x^2 - 2x - 8 = 0$$

12)
$$x^3 + 2x^2 + 3x + 6 = 0$$

13)
$$x^4 - 3x^2 - 28 = 0$$

14)
$$x^4 + 17x^2 + 72 = 0$$

15)
$$x^4 - x = 0$$

16)
$$x^4 + 8x = 0$$

17)
$$27x^4 + 8x = 0$$

$$18) -27x^4 + 125x = 0$$

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1)
$$-2b^3 - 9 + 5b^2 - 4b$$

cubic polynomial with four terms

2)
$$7x^3 + 10x^7 + 9x^5 + 9 - 2x^2 + 2x$$

seventh degree polynomial with six terms

constant monomial

$$4) -10$$

constant monomial

Find each product.

5)
$$(3n-8)(4n+1)$$

$$12n^2 - 29n - 8$$

6)
$$(2x+7)(8x-4)$$

$$16x^2 + 48x - 28$$

7)
$$(-3n^2 + 7n + 7)(6n^2 + n + 8)$$

-18 $n^4 + 39n^3 + 25n^2 + 63n + 56$

8)
$$(9a + 10b)(9a - 10b)$$

 $81a^2 - 100b^2$

9)
$$x^2 - 3x + 2 = 0$$

$$(x-1)(x-2)=0$$

10)
$$x^2 + 3x - 4 = 0$$

$$(x-1)(x+4)=0$$

11)
$$x^3 + 4x^2 - 2x - 8 = 0$$

 $(x+4)(x^2-2) = 0$

12)
$$x^3 + 2x^2 + 3x + 6 = 0$$

 $(x+2)(x^2+3) = 0$

13)
$$x^4 - 3x^2 - 28 = 0$$

 $(x^2 - 7)(x^2 + 4) = 0$

14)
$$x^4 + 17x^2 + 72 = 0$$

 $(x^2 + 8)(x^2 + 9) = 0$

15)
$$x^4 - x = 0$$

 $x(x-1)(x^2 + x + 1) = 0$

16)
$$x^4 + 8x = 0$$

 $x(x+2)(x^2 - 2x + 4) = 0$

17)
$$27x^4 + 8x = 0$$

 $x(3x+2)(9x^2 - 6x + 4) = 0$

18)
$$-27x^4 + 125x = 0$$

 $x(3x - 5)(-9x^2 - 15x - 25) = 0$

1)
$$n^6$$

3)
$$-5v^3 + 4v$$

4)
$$-8 - n^4 + 5n^2$$

5)
$$(6p+8)(4p+8)$$

6)
$$(7x+3)(7x+5)$$

7)
$$(8r^2 + 4r + 2)(-2r^2 + 8r - 2)$$

8)
$$(5x+4y)(5x-4y)$$

9)
$$x^3 - 5x^2 + 4x = 0$$

10)
$$x^2 + x - 12 = 0$$

11)
$$x^3 - 3x^2 - 5x + 15 = 0$$

12)
$$x^3 - x^2 + 2x - 2 = 0$$

13)
$$x^4 - 4x^2 - 32 = 0$$

14)
$$x^4 - 9x^2 + 18 = 0$$

15)
$$x^4 - 125x = 0$$

16)
$$x^4 + x = 0$$

17)
$$-64x^4 + 27x = 0$$

18)
$$125x^4 + 27x = 0$$

1)
$$n^{6}$$

sixth degree monomial

constant monomial

3)
$$-5v^3 + 4v$$

cubic binomial

4)
$$-8 - n^4 + 5n^2$$

quartic trinomial

Find each product.

5)
$$(6p+8)(4p+8)$$

 $24p^2 + 80p + 64$

6)
$$(7x+3)(7x+5)$$

$$49x^2 + 56x + 15$$

7)
$$(8r^2 + 4r + 2)(-2r^2 + 8r - 2)$$

$$-16r^4 + 56r^3 + 12r^2 + 8r - 4$$

8)
$$(5x + 4y)(5x - 4y)$$

$$25x^2 - 16y^2$$

9)
$$x^3 - 5x^2 + 4x = 0$$

$$x(x-1)(x-4)=0$$

10)
$$x^2 + x - 12 = 0$$

$$(x+4)(x-3)=0$$

11)
$$x^3 - 3x^2 - 5x + 15 = 0$$

 $(x-3)(x^2-5) = 0$

12)
$$x^3 - x^2 + 2x - 2 = 0$$

 $(x-1)(x^2+2) = 0$

13)
$$x^4 - 4x^2 - 32 = 0$$

 $(x^2 - 8)(x^2 + 4) = 0$

14)
$$x^4 - 9x^2 + 18 = 0$$

 $(x^2 - 6)(x^2 - 3) = 0$

15)
$$x^4 - 125x = 0$$

 $x(x-5)(x^2 + 5x + 25) = 0$

16)
$$x^4 + x = 0$$

 $x(x+1)(x^2 - x + 1) = 0$

17)
$$-64x^4 + 27x = 0$$

 $x(4x-3)(-16x^2 - 12x - 9) = 0$

18)
$$125x^4 + 27x = 0$$

 $x(5x+3)(25x^2 - 15x + 9) = 0$

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1)
$$-9x^4 + 2x^2 - 3 - 2x^5 - 8x^3 + 4x^7$$

2)
$$8m - 2m^2 + 5 + 2m^4 - 5m^5$$

3)
$$4x^5$$

4)
$$5 - k - 9k^2$$

Find each product.

5)
$$(7n+3)(7n-8)$$

6)
$$(v-5)(6v-8)$$

7)
$$(8b^2 + b + 4)(-3b^2 + 2b - 2)$$

8)
$$(3x - 5y)^2$$

9)
$$x^2 + 4x - 5 = 0$$

10)
$$x^2 - 2x + 1 = 0$$

11)
$$x^3 + 3x^2 - 4x - 12 = 0$$

12)
$$x^3 + x^2 + x + 1 = 0$$

13)
$$x^4 + 5x^2 - 6 = 0$$

14)
$$x^4 + 10x^2 + 21 = 0$$

15)
$$x^4 + 125x = 0$$

16)
$$x^4 - 8x = 0$$

17)
$$-27x^4 + 64x = 0$$

18)
$$27x^4 + 125x = 0$$

1)
$$-9x^4 + 2x^2 - 3 - 2x^5 - 8x^3 + 4x^7$$

seventh degree polynomial with six terms

2)
$$8m - 2m^2 + 5 + 2m^4 - 5m^5$$

quintic polynomial with five terms

3)
$$4x^5$$

quintic monomial

4)
$$5 - k - 9k^2$$

quadratic trinomial

Find each product.

5)
$$(7n+3)(7n-8)$$

$$49n^2 - 35n - 24$$

6)
$$(v-5)(6v-8)$$

$$6v^2 - 38v + 40$$

7)
$$(8b^2 + b + 4)(-3b^2 + 2b - 2)$$

 $-24b^4 + 13b^3 - 26b^2 + 6b - 8$

8)
$$(3x - 5y)^2$$

$$9x^2 - 30xy + 25y^2$$

9)
$$x^2 + 4x - 5 = 0$$

$$(x-1)(x+5)=0$$

10)
$$x^2 - 2x + 1 = 0$$

$$(x-1)^2=0$$

11)
$$x^3 + 3x^2 - 4x - 12 = 0$$

 $(x+3)(x-2)(x+2) = 0$

12)
$$x^3 + x^2 + x + 1 = 0$$

 $(x+1)(x^2+1) = 0$

13)
$$x^4 + 5x^2 - 6 = 0$$

 $(x^2 + 6)(x - 1)(x + 1) = 0$

14)
$$x^4 + 10x^2 + 21 = 0$$

 $(x^2 + 7)(x^2 + 3) = 0$

15)
$$x^4 + 125x = 0$$

 $x(x+5)(x^2 - 5x + 25) = 0$

16)
$$x^4 - 8x = 0$$

 $x(x-2)(x^2 + 2x + 4) = 0$

17)
$$-27x^4 + 64x = 0$$

 $x(3x-4)(-9x^2 - 12x - 16) = 0$

18)
$$27x^4 + 125x = 0$$

 $x(3x+5)(9x^2 - 15x + 25) = 0$

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2)
$$8n^2$$

3)
$$-5 - 6n^3$$

4)
$$3n^6 - 2n^5 - 3n^3 - 8n^2$$

Find each product.

5)
$$(8v-6)(v-4)$$

6)
$$(4b-2)(6b+4)$$

7)
$$(4x^2 - x - 2)(-3x^2 - 3x + 1)$$

8)
$$(-2x + 7y)(-2x - 7y)$$

9)
$$x^2 + 4x - 5 = 0$$

10)
$$x^2 - 9 = 0$$

11)
$$x^3 - 2x^2 - 4x + 8 = 0$$

12)
$$x^3 - 5x^2 - 5x + 25 = 0$$

13)
$$x^4 + 4x^2 - 45 = 0$$

14)
$$x^4 - 4x^2 - 45 = 0$$

15)
$$x^4 - 8x = 0$$

16)
$$x^4 + x = 0$$

17)
$$27x^4 - 8x = 0$$

18)
$$-64x^4 + 125x = 0$$

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constant monomial

2)
$$8n^2$$

quadratic monomial

3)
$$-5 - 6n^3$$

cubic binomial

4)
$$3n^6 - 2n^5 - 3n^3 - 8n^2$$

sixth degree polynomial with four terms

Find each product.

5)
$$(8v-6)(v-4)$$

$$8v^2 - 38v + 24$$

6)
$$(4b-2)(6b+4)$$

$$24b^2 + 4b - 8$$

7)
$$(4x^2 - x - 2)(-3x^2 - 3x + 1)$$

-12 $x^4 - 9x^3 + 13x^2 + 5x - 2$

8)
$$(-2x + 7y)(-2x - 7y)$$

 $4x^2 - 49y^2$

9)
$$x^2 + 4x - 5 = 0$$

$$(x-1)(x+5)=0$$

10)
$$x^2 - 9 = 0$$

$$(x+3)(x-3)=0$$

11)
$$x^3 - 2x^2 - 4x + 8 = 0$$

 $(x-2)^2(x+2) = 0$

12)
$$x^3 - 5x^2 - 5x + 25 = 0$$

 $(x - 5)(x^2 - 5) = 0$

13)
$$x^4 + 4x^2 - 45 = 0$$

 $(x^2 + 9)(x^2 - 5) = 0$

14)
$$x^4 - 4x^2 - 45 = 0$$

 $(x-3)(x+3)(x^2+5) = 0$

15)
$$x^4 - 8x = 0$$

 $x(x-2)(x^2 + 2x + 4) = 0$

16)
$$x^4 + x = 0$$

 $x(x+1)(x^2 - x + 1) = 0$

17)
$$27x^4 - 8x = 0$$

 $x(3x - 2)(9x^2 + 6x + 4) = 0$

18)
$$-64x^4 + 125x = 0$$

 $x(4x - 5)(-16x^2 - 20x - 25) = 0$

1)
$$2n-4$$

2)
$$10n^8 + 4n^4 + 5n^6 - 8n^7 - n^3$$

3)
$$-7b^2 - 9b^6 - 3$$

4)
$$5b^7 - 8b^4 - 7b^3 - 7b^5 + 5b$$

5)
$$(6x-8)(4x-4)$$

6)
$$(4x+3)(2x-1)$$

7)
$$(-3r^2 + 7r - 5)(-2r^2 - 8r + 6)$$

8)
$$(10x + 10y^2)^2$$

9)
$$x^2 + 2x - 3 = 0$$

10)
$$x^2 - 3x + 2 = 0$$

11)
$$x^3 - 3x^2 - 3x + 9 = 0$$

12)
$$x^3 + x^2 - 5x - 5 = 0$$

13)
$$x^4 - 12x^2 + 36 = 0$$

14)
$$x^4 + 13x^2 + 36 = 0$$

15)
$$x^4 - 27x = 0$$

16)
$$x^4 + 125x = 0$$

$$17) -125x^4 + 27x = 0$$

18)
$$64x^4 + 27x = 0$$

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1)
$$2n-4$$

linear binomial

2)
$$10n^8 + 4n^4 + 5n^6 - 8n^7 - n^3$$

eighth degree polynomial with five terms

3)
$$-7b^2 - 9b^6 - 3$$

sixth degree trinomial

4)
$$5b^7 - 8b^4 - 7b^3 - 7b^5 + 5b$$

seventh degree polynomial with five terms

Find each product.

5)
$$(6x-8)(4x-4)$$

$$24x^2 - 56x + 32$$

6)
$$(4x+3)(2x-1)$$

$$8x^2 + 2x - 3$$

7)
$$(-3r^2 + 7r - 5)(-2r^2 - 8r + 6)$$

$$6r^4 + 10r^3 - 64r^2 + 82r - 30$$

8)
$$(10x + 10y^2)^2$$

$$100x^2 + 200xy^2 + 100y^4$$

9)
$$x^2 + 2x - 3 = 0$$

$$(x-1)(x+3)=0$$

10)
$$x^2 - 3x + 2 = 0$$

$$(x-2)(x-1)=0$$

11)
$$x^3 - 3x^2 - 3x + 9 = 0$$

 $(x - 3)(x^2 - 3) = 0$

12)
$$x^3 + x^2 - 5x - 5 = 0$$

 $(x+1)(x^2-5) = 0$

13)
$$x^4 - 12x^2 + 36 = 0$$

 $(x^2 - 6)^2 = 0$

14)
$$x^4 + 13x^2 + 36 = 0$$

 $(x^2 + 9)(x^2 + 4) = 0$

15)
$$x^4 - 27x = 0$$

 $x(x-3)(x^2 + 3x + 9) = 0$

16)
$$x^4 + 125x = 0$$

 $x(x+5)(x^2 - 5x + 25) = 0$

17)
$$-125x^4 + 27x = 0$$

 $x(5x-3)(-25x^2 - 15x - 9) = 0$

18)
$$64x^4 + 27x = 0$$

 $x(4x+3)(16x^2 - 12x + 9) = 0$

1)
$$6k^4 + 7k^2 - 10k + 9k^3 - 9$$

2)
$$9x - 8x^2$$

3)
$$-5x^2$$

4)
$$-5 + 10r + 7r^4 - 10r^6 - r^5$$

5)
$$(3p-4)(2p+6)$$

6)
$$(3n-1)(7n-3)$$

7)
$$(4m^2 + 2m - 4)(-7m^2 + 6m - 7)$$

8)
$$(-7a^2 + 9b)^2$$

9)
$$x^2 - 5x + 6 = 0$$

10)
$$x^2 - 2x - 3 = 0$$

11)
$$x^3 + x^2 - x - 1 = 0$$

12)
$$x^3 - 4x^2 - 2x + 8 = 0$$

13)
$$x^4 + 12x^2 + 32 = 0$$

14)
$$x^4 - 3x^2 - 28 = 0$$

15)
$$x^4 - 64x = 0$$

16)
$$x^4 - 125x = 0$$

17)
$$27x^4 - 64x = 0$$

$$18) -125x^4 + 27x = 0$$

1)
$$6k^4 + 7k^2 - 10k + 9k^3 - 9$$

quartic polynomial with five terms

2)
$$9x - 8x^2$$

quadratic binomial

3)
$$-5x^2$$

quadratic monomial

4)
$$-5 + 10r + 7r^4 - 10r^6 - r^5$$

sixth degree polynomial with five terms

Find each product.

5)
$$(3p-4)(2p+6)$$

$$6p^2 + 10p - 24$$

6)
$$(3n-1)(7n-3)$$

$$21n^2 - 16n + 3$$

7)
$$(4m^2 + 2m - 4)(-7m^2 + 6m - 7)$$

 $-28m^4 + 10m^3 + 12m^2 - 38m + 28$

8)
$$(-7a^2 + 9b)^2$$

$$49a^4 - 126a^2b + 81b^2$$

9)
$$x^2 - 5x + 6 = 0$$

$$(x-2)(x-3)=0$$

10)
$$x^2 - 2x - 3 = 0$$

$$(x+1)(x-3)=0$$

11)
$$x^3 + x^2 - x - 1 = 0$$

 $(x+1)^2(x-1) = 0$

12)
$$x^3 - 4x^2 - 2x + 8 = 0$$

 $(x-4)(x^2-2) = 0$

13)
$$x^4 + 12x^2 + 32 = 0$$

 $(x^2 + 4)(x^2 + 8) = 0$

14)
$$x^4 - 3x^2 - 28 = 0$$

 $(x^2 - 7)(x^2 + 4) = 0$

15)
$$x^4 - 64x = 0$$

 $x(x-4)(x^2 + 4x + 16) = 0$

16)
$$x^4 - 125x = 0$$

 $x(x-5)(x^2 + 5x + 25) = 0$

17)
$$27x^4 - 64x = 0$$

 $x(3x - 4)(9x^2 + 12x + 16) = 0$

18)
$$-125x^4 + 27x = 0$$

 $x(5x-3)(-25x^2 - 15x - 9) = 0$

1)
$$3r^5 - 5r^4 + 8r^6$$

2)
$$-8b^6 + 7b^7 + 9b - 5b^5 - 4b^3$$

3)
$$-4a^8 - 3a^6$$

4)
$$-10x$$

Find each product.

5)
$$(4n-7)(4n+7)$$

6)
$$(k+6)(6k-4)$$

7)
$$(-x^2 - 2x + 1)(6x^2 + x - 8)$$

8)
$$(-3m + 3n)^2$$

9)
$$x^2 - x - 2 = 0$$

10)
$$x^2 - 25 = 0$$

11)
$$x^3 - 4x^2 + 2x - 8 = 0$$

12)
$$x^3 + 5x^2 - 4x - 20 = 0$$

13)
$$x^4 + 12x^2 + 36 = 0$$

14)
$$x^4 - 16x^2 + 63 = 0$$

15)
$$x^4 - 8x = 0$$

16)
$$x^4 + 125x = 0$$

17)
$$125x^4 - 64x = 0$$

$$18) -125x^4 + 8x = 0$$

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1)
$$3r^5 - 5r^4 + 8r^6$$

sixth degree trinomial

2)
$$-8b^6 + 7b^7 + 9b - 5b^5 - 4b^3$$

seventh degree polynomial with five terms

3)
$$-4a^8 - 3a^6$$

eighth degree binomial

4)
$$-10x$$

linear monomial

Find each product.

5)
$$(4n-7)(4n+7)$$

 $16n^2 - 49$

6)
$$(k+6)(6k-4)$$

$$6k^2 + 32k - 24$$

7)
$$(-x^2 - 2x + 1)(6x^2 + x - 8)$$

$$-6x^4 - 13x^3 + 12x^2 + 17x - 8$$

8)
$$(-3m+3n)^2$$

$$9m^2 - 18mn + 9n^2$$

9)
$$x^2 - x - 2 = 0$$

$$(x-2)(x+1)=0$$

10)
$$x^2 - 25 = 0$$

$$(x+5)(x-5)=0$$

11)
$$x^3 - 4x^2 + 2x - 8 = 0$$

 $(x - 4)(x^2 + 2) = 0$

12)
$$x^3 + 5x^2 - 4x - 20 = 0$$

 $(x+5)(x-2)(x+2) = 0$

13)
$$x^4 + 12x^2 + 36 = 0$$

 $(x^2 + 6)^2 = 0$

14)
$$x^4 - 16x^2 + 63 = 0$$

 $(x-3)(x+3)(x^2-7) = 0$

15)
$$x^4 - 8x = 0$$

 $x(x-2)(x^2 + 2x + 4) = 0$

16)
$$x^4 + 125x = 0$$

 $x(x+5)(x^2 - 5x + 25) = 0$

17)
$$125x^4 - 64x = 0$$

 $x(5x - 4)(25x^2 + 20x + 16) = 0$

18)
$$-125x^4 + 8x = 0$$

 $x(5x - 2)(-25x^2 - 10x - 4) = 0$

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1)
$$10n^3$$

2)
$$-8m^4 + 10m$$

3)
$$a^{7}$$

4)
$$-8r^2 - 2r + 6 - 10r^3$$

Find each product.

5)
$$(4x+6)(4x-5)$$

6)
$$(k-4)(8k+1)$$

7)
$$(6x^2 - 6x + 8)(4x^2 - 4x - 2)$$

8)
$$(5n^2 + 9m)(5n^2 - 9m)$$

9)
$$x^3 - 8x^2 + 15x = 0$$

10)
$$x^2 - 6x + 8 = 0$$

11)
$$x^3 - 2x^2 + 3x - 6 = 0$$

12)
$$x^3 - x^2 - x + 1 = 0$$

13)
$$x^4 + 8x^2 + 15 = 0$$

14)
$$x^4 + 6x^2 - 16 = 0$$

15)
$$x^4 - 27x = 0$$

16)
$$x^4 + 125x = 0$$

17)
$$-8x^4 + 27x = 0$$

18)
$$27x^4 - 8x = 0$$

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1)
$$10n^3$$

cubic monomial

2)
$$-8m^4 + 10m$$

quartic binomial

3)
$$a^{7}$$

seventh degree monomial

4)
$$-8r^2 - 2r + 6 - 10r^3$$

cubic polynomial with four terms

Find each product.

5)
$$(4x+6)(4x-5)$$

$$16x^2 + 4x - 30$$

6)
$$(k-4)(8k+1)$$

$$8k^2 - 31k - 4$$

7)
$$(6x^2 - 6x + 8)(4x^2 - 4x - 2)$$

$$24x^4 - 48x^3 + 44x^2 - 20x - 16$$

8)
$$(5n^2 + 9m)(5n^2 - 9m)$$

 $25n^4 - 81m^2$

9)
$$x^3 - 8x^2 + 15x = 0$$

$$x(x-5)(x-3)=0$$

10)
$$x^2 - 6x + 8 = 0$$

$$(x-2)(x-4)=0$$

11)
$$x^3 - 2x^2 + 3x - 6 = 0$$

 $(x - 2)(x^2 + 3) = 0$

12)
$$x^3 - x^2 - x + 1 = 0$$

 $(x-1)^2(x+1) = 0$

13)
$$x^4 + 8x^2 + 15 = 0$$

 $(x^2 + 5)(x^2 + 3) = 0$

14)
$$x^4 + 6x^2 - 16 = 0$$

 $(x^2 + 8)(x^2 - 2) = 0$

15)
$$x^4 - 27x = 0$$

 $x(x-3)(x^2 + 3x + 9) = 0$

16)
$$x^4 + 125x = 0$$

 $x(x+5)(x^2 - 5x + 25) = 0$

17)
$$-8x^4 + 27x = 0$$

 $x(2x-3)(-4x^2 - 6x - 9) = 0$

18)
$$27x^4 - 8x = 0$$

 $x(3x - 2)(9x^2 + 6x + 4) = 0$

1)
$$-10n$$

2)
$$-8x^2 + 1$$

3)
$$4 - 3n$$

4)
$$7x + 7x^2 + 1 + 6x^3$$

Find each product.

5)
$$(5n-7)(5n+4)$$

6)
$$(b-2)(4b+3)$$

7)
$$(-a^2 - 5a - 8)(-6a^2 + 2a - 2)$$

8)
$$(6a-4b)^2$$

9)
$$x^2 + x - 2 = 0$$

10)
$$x^2 - x - 20 = 0$$

11)
$$x^3 - x^2 + 2x - 2 = 0$$

12)
$$x^3 - x^2 + 3x - 3 = 0$$

13)
$$x^4 + 3x^2 - 4 = 0$$

14)
$$x^4 + 3x^2 - 28 = 0$$

15)
$$x^4 + x = 0$$

16)
$$x^4 - 125x = 0$$

17)
$$64x^4 + 27x = 0$$

18)
$$27x^4 + 64x = 0$$

1)
$$-10n$$

linear monomial

2)
$$-8x^2 + 1$$

quadratic binomial

3)
$$4 - 3n$$

linear binomial

4)
$$7x + 7x^2 + 1 + 6x^3$$

cubic polynomial with four terms

Find each product.

5)
$$(5n-7)(5n+4)$$

$$25n^2 - 15n - 28$$

6)
$$(b-2)(4b+3)$$

$$4b^2 - 5b - 6$$

7)
$$(-a^2 - 5a - 8)(-6a^2 + 2a - 2)$$

$$6a^4 + 28a^3 + 40a^2 - 6a + 16$$

8)
$$(6a-4b)^2$$

$$36a^2 - 48ab + 16b^2$$

9)
$$x^2 + x - 2 = 0$$

$$(x+2)(x-1)=0$$

10)
$$x^2 - x - 20 = 0$$

$$(x-5)(x+4)=0$$

11)
$$x^3 - x^2 + 2x - 2 = 0$$

 $(x-1)(x^2+2) = 0$

12)
$$x^3 - x^2 + 3x - 3 = 0$$

 $(x-1)(x^2+3) = 0$

13)
$$x^4 + 3x^2 - 4 = 0$$

 $(x-1)(x+1)(x^2+4) = 0$

14)
$$x^4 + 3x^2 - 28 = 0$$

 $(x-2)(x+2)(x^2+7) = 0$

15)
$$x^4 + x = 0$$

 $x(x+1)(x^2 - x + 1) = 0$

16)
$$x^4 - 125x = 0$$

 $x(x-5)(x^2 + 5x + 25) = 0$

17)
$$64x^4 + 27x = 0$$

 $x(4x+3)(16x^2 - 12x + 9) = 0$

18)
$$27x^4 + 64x = 0$$

 $x(3x + 4)(9x^2 - 12x + 16) = 0$

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1)
$$-1 + 10n^3 - 8n^2 - 8n^4 + 4n + 6n^7$$

2)
$$-2b^2 + 8b^6$$

3)
$$5x^7 + 5x^6 - 3 + 10x^4 - x^5 - 5x^2$$

4)
$$8v^4 - 9v^2 + 5v + 8v^3 - 2$$

Find each product.

5)
$$(4x+8)(8x+4)$$

6)
$$(5x-3)(3x-5)$$

7)
$$(-3b^2 + 3b + 6)(-8b^2 - b + 6)$$

8)
$$(5x-4y^3)(5x+4y^3)$$

9)
$$x^2 - x - 6 = 0$$

10)
$$x^2 - 16 = 0$$

11)
$$x^3 + 5x^2 - 2x - 10 = 0$$

12)
$$x^3 - 5x^2 + 5x - 25 = 0$$

13)
$$x^4 - 2x^2 - 48 = 0$$

14)
$$x^4 - 3x^2 - 18 = 0$$

15)
$$x^4 + x = 0$$

16)
$$x^4 - 125x = 0$$

$$17) -125x^4 + 8x = 0$$

18)
$$125x^4 + 8x = 0$$

1)
$$-1 + 10n^3 - 8n^2 - 8n^4 + 4n + 6n^7$$

seventh degree polynomial with six terms

2)
$$-2b^2 + 8b^6$$

sixth degree binomial

3)
$$5x^7 + 5x^6 - 3 + 10x^4 - x^5 - 5x^2$$

seventh degree polynomial with six terms

4)
$$8v^4 - 9v^2 + 5v + 8v^3 - 2$$

quartic polynomial with five terms

Find each product.

5)
$$(4x+8)(8x+4)$$

$$32x^2 + 80x + 32$$

6)
$$(5x-3)(3x-5)$$

$$15x^2 - 34x + 15$$

7)
$$(-3b^2 + 3b + 6)(-8b^2 - b + 6)$$

$$24b^4 - 21b^3 - 69b^2 + 12b + 36$$

8)
$$(5x - 4y^3)(5x + 4y^3)$$

$$25x^2 - 16y^6$$

9)
$$x^2 - x - 6 = 0$$

$$(x-3)(x+2)=0$$

10)
$$x^2 - 16 = 0$$

$$(x+4)(x-4)=0$$

11)
$$x^3 + 5x^2 - 2x - 10 = 0$$

 $(x+5)(x^2-2) = 0$

12)
$$x^3 - 5x^2 + 5x - 25 = 0$$

 $(x - 5)(x^2 + 5) = 0$

13)
$$x^4 - 2x^2 - 48 = 0$$

 $(x^2 - 8)(x^2 + 6) = 0$

14)
$$x^4 - 3x^2 - 18 = 0$$

 $(x^2 - 6)(x^2 + 3) = 0$

15)
$$x^4 + x = 0$$

 $x(x+1)(x^2 - x + 1) = 0$

16)
$$x^4 - 125x = 0$$

 $x(x-5)(x^2 + 5x + 25) = 0$

17)
$$-125x^4 + 8x = 0$$

 $x(5x-2)(-25x^2 - 10x - 4) = 0$

18)
$$125x^4 + 8x = 0$$

 $x(5x + 2)(25x^2 - 10x + 4) = 0$

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1)
$$4v^2 - 5v + 3 - 8v^3 - v^4 + v^5$$

2)
$$x^4$$

$$3) -2$$

Find each product.

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

6)
$$(3x+8)(5x+7)$$

7)
$$(-6b^2 + 6b - 8)(-3b^2 - 8b + 2)$$

8)
$$(-6u - 2v)(-6u + 2v)$$

9)
$$x^2 + 2x - 8 = 0$$

10)
$$x^2 + 3x + 2 = 0$$

11)
$$x^3 - 3x^2 - 3x + 9 = 0$$

12)
$$x^3 + 2x^2 - 5x - 10 = 0$$

13)
$$x^4 - 7x^2 + 12 = 0$$

14)
$$x^4 + 10x^2 + 24 = 0$$

15)
$$x^4 + x = 0$$

16)
$$x^4 + 64x = 0$$

17)
$$64x^4 + 27x = 0$$

18)
$$8x^4 - 27x = 0$$

1)
$$4v^2 - 5v + 3 - 8v^3 - v^4 + v^5$$

quintic polynomial with six terms

2)
$$x^4$$

quartic monomial

constant monomial

constant monomial

Find each product.

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

$$2x^2 - 4x - 30$$

6)
$$(3x+8)(5x+7)$$

$$15x^2 + 61x + 56$$

7)
$$(-6b^2 + 6b - 8)(-3b^2 - 8b + 2)$$

$$18b^4 + 30b^3 - 36b^2 + 76b - 16$$

8)
$$(-6u - 2v)(-6u + 2v)$$

$$36u^2 - 4v^2$$

9)
$$x^2 + 2x - 8 = 0$$

$$(x+4)(x-2)=0$$

10)
$$x^2 + 3x + 2 = 0$$

$$(x+2)(x+1) = 0$$

11)
$$x^3 - 3x^2 - 3x + 9 = 0$$

 $(x - 3)(x^2 - 3) = 0$

12)
$$x^3 + 2x^2 - 5x - 10 = 0$$

 $(x+2)(x^2-5) = 0$

13)
$$x^4 - 7x^2 + 12 = 0$$

 $(x-2)(x+2)(x^2-3) = 0$

14)
$$x^4 + 10x^2 + 24 = 0$$

 $(x^2 + 4)(x^2 + 6) = 0$

15)
$$x^4 + x = 0$$

 $x(x+1)(x^2 - x + 1) = 0$

16)
$$x^4 + 64x = 0$$

 $x(x+4)(x^2 - 4x + 16) = 0$

17)
$$64x^4 + 27x = 0$$

 $x(4x+3)(16x^2 - 12x + 9) = 0$

18)
$$8x^4 - 27x = 0$$

 $x(2x - 3)(4x^2 + 6x + 9) = 0$

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1)
$$7n^2$$

2)
$$-7 - 6v^4 - 8v^3 + 9v^2 - 6v$$

3)
$$-10x^8$$

4)
$$2a^6 + 9a^7$$

Find each product.

5)
$$(4p+6)(3p-1)$$

6)
$$(7n-3)(6n-2)$$

7)
$$(5b^2 - 7b - 7)(-7b^2 + b + 6)$$

8)
$$(-x-5y^2)^2$$

9)
$$x^2 - 9x + 20 = 0$$

10)
$$x^2 - 4 = 0$$

11)
$$x^3 + 2x^2 + 4x + 8 = 0$$

12)
$$x^3 - 2x^2 + 3x - 6 = 0$$

13)
$$x^4 - 2x^2 - 15 = 0$$

14)
$$x^4 - 4x^2 + 3 = 0$$

15)
$$x^4 - 8x = 0$$

16)
$$x^4 + 8x = 0$$

$$17) -125x^4 + 64x = 0$$

18)
$$125x^4 + 64x = 0$$

1)
$$7n^2$$

quadratic monomial

2)
$$-7 - 6v^4 - 8v^3 + 9v^2 - 6v$$

quartic polynomial with five terms

3)
$$-10x^8$$

eighth degree monomial

4)
$$2a^6 + 9a^7$$

seventh degree binomial

Find each product.

5)
$$(4p+6)(3p-1)$$

$$12p^2 + 14p - 6$$

6)
$$(7n-3)(6n-2)$$

$$42n^2 - 32n + 6$$

7)
$$(5b^2 - 7b - 7)(-7b^2 + b + 6)$$

-35 $b^4 + 54b^3 + 72b^2 - 49b - 42$

8)
$$(-x - 5y^2)^2$$

$$x^2 + 10xy^2 + 25y^4$$

9)
$$x^2 - 9x + 20 = 0$$

$$(x-5)(x-4)=0$$

10)
$$x^2 - 4 = 0$$

$$(x-2)(x+2)=0$$

11)
$$x^3 + 2x^2 + 4x + 8 = 0$$

 $(x+2)(x^2+4) = 0$

12)
$$x^3 - 2x^2 + 3x - 6 = 0$$

 $(x - 2)(x^2 + 3) = 0$

13)
$$x^4 - 2x^2 - 15 = 0$$

 $(x^2 - 5)(x^2 + 3) = 0$

14)
$$x^4 - 4x^2 + 3 = 0$$

 $(x-1)(x+1)(x^2-3) = 0$

15)
$$x^4 - 8x = 0$$

 $x(x-2)(x^2 + 2x + 4) = 0$

16)
$$x^4 + 8x = 0$$

 $x(x+2)(x^2 - 2x + 4) = 0$

17)
$$-125x^4 + 64x = 0$$

 $x(5x - 4)(-25x^2 - 20x - 16) = 0$

18)
$$125x^4 + 64x = 0$$

 $x(5x + 4)(25x^2 - 20x + 16) = 0$

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1)
$$10p^5$$

2)
$$-5a + 8a^4 + 4 - 7a^2$$

3)
$$8p^{7}$$

4)
$$8 - 3m^5 + 8m^6 + 7m$$

Find each product.

5)
$$(7n-3)(6n+4)$$

6)
$$(2b-1)(3b-3)$$

7)
$$(6r^2 - 6r + 8)(-4r^2 - 3r + 3)$$

8)
$$(3y^2 + 10x)^2$$

9)
$$x^3 - 6x^2 + 9x = 0$$

10)
$$x^2 + x - 2 = 0$$

11)
$$x^3 + x^2 - 5x - 5 = 0$$

12)
$$x^3 - 4x^2 - 5x + 20 = 0$$

13)
$$x^4 - 4x^2 + 3 = 0$$

14)
$$x^4 - 49 = 0$$

15)
$$x^4 + 27x = 0$$

16)
$$x^4 + x = 0$$

17)
$$27x^4 - 8x = 0$$

$$18) -8x^4 + 27x = 0$$

1)
$$10p^5$$

quintic monomial

2)
$$-5a + 8a^4 + 4 - 7a^2$$

quartic polynomial with four terms

3)
$$8p^{7}$$

seventh degree monomial

4)
$$8-3m^5+8m^6+7m$$

sixth degree polynomial with four terms

Find each product.

5)
$$(7n-3)(6n+4)$$

$$42n^2 + 10n - 12$$

6)
$$(2b-1)(3b-3)$$

$$6b^2 - 9b + 3$$

7)
$$(6r^2 - 6r + 8)(-4r^2 - 3r + 3)$$

$$-24r^4 + 6r^3 + 4r^2 - 42r + 24$$

8)
$$(3y^2 + 10x)^2$$

$$9y^4 + 60y^2x + 100x^2$$

9)
$$x^3 - 6x^2 + 9x = 0$$

$$x(x-3)^2=0$$

10)
$$x^2 + x - 2 = 0$$

$$(x-1)(x+2)=0$$

11)
$$x^3 + x^2 - 5x - 5 = 0$$

 $(x+1)(x^2 - 5) = 0$

12)
$$x^3 - 4x^2 - 5x + 20 = 0$$

 $(x-4)(x^2-5) = 0$

13)
$$x^4 - 4x^2 + 3 = 0$$

 $(x^2 - 3)(x - 1)(x + 1) = 0$

14)
$$x^4 - 49 = 0$$
 $(x^2 - 7)(x^2 + 7) = 0$

15)
$$x^4 + 27x = 0$$

 $x(x+3)(x^2 - 3x + 9) = 0$

16)
$$x^4 + x = 0$$

 $x(x+1)(x^2 - x + 1) = 0$

17)
$$27x^4 - 8x = 0$$

 $x(3x - 2)(9x^2 + 6x + 4) = 0$

18)
$$-8x^4 + 27x = 0$$

 $x(2x-3)(-4x^2 - 6x - 9) = 0$

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1)
$$-4b^5 + 6b^3 + 6b^2 + 5b^7$$

2)
$$3x^6 + x^7 - 4x^5$$

3)
$$-7x^2 - 6x^5$$

4)
$$-8m^5 + 1$$

Find each product.

5)
$$(6a-3)(6a+8)$$

6)
$$(6a+4)(2a-3)$$

7)
$$(8a^2 - 5a - 7)(5a^2 + 2a - 4)$$

8)
$$(-6y + 10x)(-6y - 10x)$$

9)
$$x^2 - 4x - 5 = 0$$

10)
$$x^2 - x - 12 = 0$$

11)
$$x^3 + 4x^2 + 3x + 12 = 0$$

12)
$$x^3 + 2x^2 - 5x - 10 = 0$$

13)
$$x^4 + 5x^2 - 14 = 0$$

14)
$$x^4 - 9 = 0$$

15)
$$x^4 + x = 0$$

16)
$$x^4 - 27x = 0$$

17)
$$125x^4 + 8x = 0$$

$$18) -125x^4 + 8x = 0$$

1)
$$-4b^5 + 6b^3 + 6b^2 + 5b^7$$

seventh degree polynomial with four terms

2)
$$3x^6 + x^7 - 4x^5$$

seventh degree trinomial

3)
$$-7x^2 - 6x^5$$

quintic binomial

4)
$$-8m^5 + 1$$

quintic binomial

Find each product.

5)
$$(6a-3)(6a+8)$$

 $36a^2 + 30a - 24$

6)
$$(6a+4)(2a-3)$$

$$12a^2 - 10a - 12$$

7)
$$(8a^2 - 5a - 7)(5a^2 + 2a - 4)$$

$$40a^4 - 9a^3 - 77a^2 + 6a + 28$$

8)
$$(-6y + 10x)(-6y - 10x)$$

$$36y^2 - 100x^2$$

9)
$$x^2 - 4x - 5 = 0$$

$$(x-5)(x+1)=0$$

10)
$$x^2 - x - 12 = 0$$

$$(x+3)(x-4)=0$$

11)
$$x^3 + 4x^2 + 3x + 12 = 0$$

 $(x+4)(x^2+3) = 0$

12)
$$x^3 + 2x^2 - 5x - 10 = 0$$

 $(x+2)(x^2-5) = 0$

13)
$$x^4 + 5x^2 - 14 = 0$$

 $(x^2 - 2)(x^2 + 7) = 0$

14)
$$x^4 - 9 = 0$$

 $(x^2 - 3)(x^2 + 3) = 0$

15)
$$x^4 + x = 0$$

 $x(x+1)(x^2 - x + 1) = 0$

16)
$$x^4 - 27x = 0$$

 $x(x-3)(x^2 + 3x + 9) = 0$

17)
$$125x^4 + 8x = 0$$

 $x(5x + 2)(25x^2 - 10x + 4) = 0$

18)
$$-125x^4 + 8x = 0$$

 $x(5x-2)(-25x^2 - 10x - 4) = 0$

1)
$$9 + 7x^7$$

2)
$$-3n^5$$

3)
$$-10x^5 + 7x$$

4)
$$7v^8$$

Find each product.

5)
$$(4m-7)(3m+8)$$

6)
$$(8v + 8)(6v + 1)$$

7)
$$(-p^2 + 4p + 3)(-p^2 + 3p - 8)$$

8)
$$(4x^5 + 4y^3)(4x^5 - 4y^3)$$

9)
$$x^2 + 2x - 3 = 0$$

10)
$$x^2 + 6x + 8 = 0$$

11)
$$x^3 - 3x^2 + 5x - 15 = 0$$

12)
$$x^3 - 2x^2 - 2x + 4 = 0$$

13)
$$x^4 + 6x^2 - 16 = 0$$

14)
$$x^4 + 12x^2 + 32 = 0$$

15)
$$x^4 - 125x = 0$$

16)
$$x^4 + 64x = 0$$

17)
$$27x^4 - 8x = 0$$

18)
$$125x^4 + 27x = 0$$

1)
$$9 + 7x^7$$

seventh degree binomial

2)
$$-3n^5$$

quintic monomial

3)
$$-10x^5 + 7x$$

quintic binomial

4)
$$7v^8$$

eighth degree monomial

Find each product.

5)
$$(4m-7)(3m+8)$$

 $12m^2 + 11m - 56$

6)
$$(8v + 8)(6v + 1)$$

$$48v^2 + 56v + 8$$

7)
$$(-p^2 + 4p + 3)(-p^2 + 3p - 8)$$

$$p^4 - 7p^3 + 17p^2 - 23p - 24$$

8)
$$(4x^5 + 4y^3)(4x^5 - 4y^3)$$

$$16x^{10} - 16y^6$$

9)
$$x^2 + 2x - 3 = 0$$

$$(x+3)(x-1)=0$$

10)
$$x^2 + 6x + 8 = 0$$

$$(x+4)(x+2)=0$$

11)
$$x^3 - 3x^2 + 5x - 15 = 0$$

 $(x - 3)(x^2 + 5) = 0$

12)
$$x^3 - 2x^2 - 2x + 4 = 0$$

 $(x-2)(x^2-2) = 0$

13)
$$x^4 + 6x^2 - 16 = 0$$

 $(x^2 + 8)(x^2 - 2) = 0$

14)
$$x^4 + 12x^2 + 32 = 0$$

 $(x^2 + 4)(x^2 + 8) = 0$

15)
$$x^4 - 125x = 0$$

 $x(x-5)(x^2 + 5x + 25) = 0$

16)
$$x^4 + 64x = 0$$

 $x(x+4)(x^2 - 4x + 16) = 0$

17)
$$27x^4 - 8x = 0$$

 $x(3x - 2)(9x^2 + 6x + 4) = 0$

18)
$$125x^4 + 27x = 0$$

 $x(5x+3)(25x^2 - 15x + 9) = 0$

1)
$$10x^3$$

2)
$$3k + 3k^5 - 3k^4$$

3)
$$-2v^8$$

4)
$$-6 - 6r$$

Find each product.

5)
$$(a-6)(2a+1)$$

6)
$$(7p-6)(3p+4)$$

7)
$$(-6x^2 - x - 8)(x^2 + x + 4)$$

8)
$$(-5y - 8x^3)(-5y + 8x^3)$$

9)
$$x^2 + x - 2 = 0$$

10)
$$x^2 + 4x + 4 = 0$$

11)
$$x^3 + 4x^2 + 2x + 8 = 0$$

12)
$$x^3 + 4x^2 + x + 4 = 0$$

13)
$$x^4 + 5x^2 - 36 = 0$$

14)
$$x^4 - x^2 - 20 = 0$$

15)
$$x^4 - 27x = 0$$

16)
$$x^4 + 64x = 0$$

17)
$$64x^4 - 125x = 0$$

$$18) -125x^4 + 64x = 0$$

1)
$$10x^3$$

cubic monomial

$$2) \ 3k + 3k^5 - 3k^4$$

quintic trinomial

3)
$$-2v^8$$

eighth degree monomial

4)
$$-6 - 6r$$

linear binomial

Find each product.

5)
$$(a-6)(2a+1)$$

$$2a^2 - 11a - 6$$

6)
$$(7p-6)(3p+4)$$

$$21p^2 + 10p - 24$$

7)
$$(-6x^2 - x - 8)(x^2 + x + 4)$$

$$-6x^4 - 7x^3 - 33x^2 - 12x - 32$$

8)
$$(-5y - 8x^3)(-5y + 8x^3)$$

$$25y^2 - 64x^6$$

9)
$$x^2 + x - 2 = 0$$

$$(x-1)(x+2)=0$$

10)
$$x^2 + 4x + 4 = 0$$

$$(x+2)^2=0$$

11)
$$x^3 + 4x^2 + 2x + 8 = 0$$

 $(x+4)(x^2+2) = 0$

12)
$$x^3 + 4x^2 + x + 4 = 0$$

 $(x+4)(x^2+1) = 0$

13)
$$x^4 + 5x^2 - 36 = 0$$

 $(x-2)(x+2)(x^2+9) = 0$

14)
$$x^4 - x^2 - 20 = 0$$

 $(x^2 + 4)(x^2 - 5) = 0$

15)
$$x^4 - 27x = 0$$

 $x(x-3)(x^2 + 3x + 9) = 0$

16)
$$x^4 + 64x = 0$$

 $x(x+4)(x^2 - 4x + 16) = 0$

17)
$$64x^4 - 125x = 0$$

 $x(4x - 5)(16x^2 + 20x + 25) = 0$

18)
$$-125x^4 + 64x = 0$$

 $x(5x - 4)(-25x^2 - 20x - 16) = 0$

1)
$$8m^2 - 7m^6$$

2)
$$-9k^2 + 10k^3 - 8k^4 + 1 + 6k$$

3)
$$6m^3$$

4)
$$-8n^4 - 4 - 9n^3 + 9n^2$$

Find each product.

5)
$$(6x+8)(x-1)$$

6)
$$(k+4)(3k-2)$$

7)
$$(-4x^2 + 2x + 5)(-5x^2 + 6x + 6)$$

8)
$$(7x + 10y)(7x - 10y)$$

9)
$$x^3 + 8x^2 + 16x = 0$$

10)
$$x^2 + x - 2 = 0$$

11)
$$x^3 - 5x^2 - 3x + 15 = 0$$

12)
$$x^3 - x^2 - x + 1 = 0$$

13)
$$x^4 - 12x^2 + 32 = 0$$

14)
$$x^4 + 5x^2 + 6 = 0$$

15)
$$x^4 + 125x = 0$$

16)
$$x^4 - 27x = 0$$

$$17) -125x^4 + 64x = 0$$

$$18) -125x^4 + 8x = 0$$

1)
$$8m^2 - 7m^6$$

sixth degree binomial

2)
$$-9k^2 + 10k^3 - 8k^4 + 1 + 6k$$

quartic polynomial with five terms

3)
$$6m^3$$

cubic monomial

4)
$$-8n^4 - 4 - 9n^3 + 9n^2$$

quartic polynomial with four terms

Find each product.

5)
$$(6x+8)(x-1)$$

$$6x^2 + 2x - 8$$

6)
$$(k+4)(3k-2)$$

$$3k^2 + 10k - 8$$

7)
$$(-4x^2 + 2x + 5)(-5x^2 + 6x + 6)$$

$$20x^4 - 34x^3 - 37x^2 + 42x + 30$$

8)
$$(7x + 10y)(7x - 10y)$$

$$49x^2 - 100y^2$$

9)
$$x^3 + 8x^2 + 16x = 0$$

$$x(x+4)^2=0$$

10)
$$x^2 + x - 2 = 0$$

$$(x-1)(x+2)=0$$

11)
$$x^3 - 5x^2 - 3x + 15 = 0$$

 $(x - 5)(x^2 - 3) = 0$

12)
$$x^3 - x^2 - x + 1 = 0$$

 $(x-1)^2(x+1) = 0$

13)
$$x^4 - 12x^2 + 32 = 0$$

 $(x^2 - 8)(x - 2)(x + 2) = 0$

14)
$$x^4 + 5x^2 + 6 = 0$$

 $(x^2 + 2)(x^2 + 3) = 0$

15)
$$x^4 + 125x = 0$$

 $x(x+5)(x^2 - 5x + 25) = 0$

16)
$$x^4 - 27x = 0$$

 $x(x-3)(x^2 + 3x + 9) = 0$

17)
$$-125x^4 + 64x = 0$$

 $x(5x - 4)(-25x^2 - 20x - 16) = 0$

18)
$$-125x^4 + 8x = 0$$

 $x(5x - 2)(-25x^2 - 10x - 4) = 0$

2)
$$4 + 9n^3$$

3)
$$4n^2 + 4n$$

4)
$$-9 - 9n - 7n^6 - 4n^3 - 10n^2$$

Find each product.

5)
$$(7a-1)(7a-8)$$

6)
$$(4n-2)(5n-5)$$

7)
$$(4x^2 - 3x + 3)(-2x^2 - 6x + 8)$$

8)
$$(-2u^2 + 6v)^2$$

9)
$$x^3 - 25x = 0$$

10)
$$x^2 - 9 = 0$$

11)
$$x^3 + 5x^2 + 5x + 25 = 0$$

12)
$$x^3 + 3x^2 - x - 3 = 0$$

13)
$$x^4 + 14x^2 + 48 = 0$$

14)
$$x^4 - 9 = 0$$

15)
$$x^4 + 27x = 0$$

16)
$$x^4 + x = 0$$

17)
$$64x^4 - 125x = 0$$

18)
$$64x^4 + 125x = 0$$

constant monomial

2)
$$4 + 9n^3$$

cubic binomial

3)
$$4n^2 + 4n$$

quadratic binomial

4)
$$-9 - 9n - 7n^6 - 4n^3 - 10n^2$$

sixth degree polynomial with five terms

Find each product.

5)
$$(7a-1)(7a-8)$$

$$49a^2 - 63a + 8$$

6)
$$(4n-2)(5n-5)$$

$$20n^2 - 30n + 10$$

7)
$$(4x^2 - 3x + 3)(-2x^2 - 6x + 8)$$

$$-8x^4 - 18x^3 + 44x^2 - 42x + 24$$

8)
$$(-2u^2 + 6v)^2$$

$$4u^4 - 24u^2v + 36v^2$$

9)
$$x^3 - 25x = 0$$

$$x(x-5)(x+5)=0$$

10)
$$x^2 - 9 = 0$$

$$(x-3)(x+3)=0$$

11)
$$x^3 + 5x^2 + 5x + 25 = 0$$

 $(x+5)(x^2+5) = 0$

12)
$$x^3 + 3x^2 - x - 3 = 0$$

 $(x+3)(x-1)(x+1) = 0$

13)
$$x^4 + 14x^2 + 48 = 0$$

 $(x^2 + 8)(x^2 + 6) = 0$

14)
$$x^4 - 9 = 0$$

 $(x^2 - 3)(x^2 + 3) = 0$

15)
$$x^4 + 27x = 0$$

 $x(x+3)(x^2 - 3x + 9) = 0$

16)
$$x^4 + x = 0$$

 $x(x+1)(x^2 - x + 1) = 0$

17)
$$64x^4 - 125x = 0$$

 $x(4x - 5)(16x^2 + 20x + 25) = 0$

18)
$$64x^4 + 125x = 0$$

 $x(4x + 5)(16x^2 - 20x + 25) = 0$

1)
$$9n^8$$

2)
$$-3n^3$$

3)
$$9 - 5p^7$$

4)
$$-7n^6 + 8n^5 + 10n^7 - 10$$

Find each product.

5)
$$(8a+8)(6a-1)$$

6)
$$(8n-4)(2n+3)$$

7)
$$(-b^2 + b - 7)(-8b^2 - 2b + 2)$$

8)
$$(5a - 10b)^2$$

9)
$$x^2 + 6x + 8 = 0$$

10)
$$x^2 - 10x + 25 = 0$$

11)
$$x^3 + 5x^2 - 5x - 25 = 0$$

12)
$$x^3 - x^2 + x - 1 = 0$$

13)
$$x^4 - x^2 - 42 = 0$$

14)
$$x^4 - 2x^2 + 1 = 0$$

15)
$$x^4 + x = 0$$

16)
$$x^4 - 27x = 0$$

17)
$$64x^4 - 125x = 0$$

18)
$$8x^4 + 27x = 0$$

1)
$$9n^8$$

eighth degree monomial

2)
$$-3n^3$$

cubic monomial

3)
$$9 - 5p^7$$

seventh degree binomial

4)
$$-7n^6 + 8n^5 + 10n^7 - 10$$

seventh degree polynomial with four terms

Find each product.

5)
$$(8a+8)(6a-1)$$

$$48a^2 + 40a - 8$$

6)
$$(8n-4)(2n+3)$$

$$16n^2 + 16n - 12$$

7)
$$(-b^2 + b - 7)(-8b^2 - 2b + 2)$$

$$8b^4 - 6b^3 + 52b^2 + 16b - 14$$

8)
$$(5a - 10b)^2$$

$$25a^2 - 100ab + 100b^2$$

9)
$$x^2 + 6x + 8 = 0$$

$$(x+2)(x+4)=0$$

10)
$$x^2 - 10x + 25 = 0$$

$$(x-5)^2=0$$

11)
$$x^3 + 5x^2 - 5x - 25 = 0$$

 $(x+5)(x^2-5) = 0$

12)
$$x^3 - x^2 + x - 1 = 0$$

 $(x - 1)(x^2 + 1) = 0$

13)
$$x^4 - x^2 - 42 = 0$$

 $(x^2 - 7)(x^2 + 6) = 0$

14)
$$x^4 - 2x^2 + 1 = 0$$

 $(x-1)^2 \cdot (x+1)^2 = 0$

15)
$$x^4 + x = 0$$

 $x(x+1)(x^2 - x + 1) = 0$

16)
$$x^4 - 27x = 0$$

 $x(x-3)(x^2 + 3x + 9) = 0$

17)
$$64x^4 - 125x = 0$$

 $x(4x - 5)(16x^2 + 20x + 25) = 0$

18)
$$8x^4 + 27x = 0$$

 $x(2x+3)(4x^2 - 6x + 9) = 0$

1)
$$-4x^5 - 9x^4 + x^3 + 3x$$

2)
$$9k^4 - 6$$

3)
$$7n^3 - 6n - 3n^8 - 3n^2 - 4n^5 + 2n^7$$

4)
$$8n^4 - 3n^5$$

Find each product.

5)
$$(7m+7)(2m+6)$$

6)
$$(7b-3)(b-1)$$

7)
$$(-2x^2 + 2x - 7)(5x^2 + 4x + 1)$$

8)
$$(9v^2 - 4u)^2$$

9)
$$x^3 - 7x^2 + 12x = 0$$

10)
$$x^2 - x - 6 = 0$$

11)
$$x^3 - 4x^2 - 3x + 12 = 0$$

12)
$$x^3 - 3x^2 - 4x + 12 = 0$$

13)
$$x^4 - 9x^2 + 20 = 0$$

14)
$$x^4 - x^2 - 42 = 0$$

15)
$$x^4 - 8x = 0$$

16)
$$x^4 - 64x = 0$$

17)
$$125x^4 - 27x = 0$$

18)
$$27x^4 + 64x = 0$$

1)
$$-4x^5 - 9x^4 + x^3 + 3x$$

quintic polynomial with four terms

2)
$$9k^4 - 6$$

quartic binomial

3)
$$7n^3 - 6n - 3n^8 - 3n^2 - 4n^5 + 2n^7$$

eighth degree polynomial with six terms

4)
$$8n^4 - 3n^5$$

quintic binomial

Find each product.

5)
$$(7m+7)(2m+6)$$

 $14m^2 + 56m + 42$

6)
$$(7b-3)(b-1)$$

$$7b^2 - 10b + 3$$

7)
$$(-2x^2 + 2x - 7)(5x^2 + 4x + 1)$$

-10 $x^4 + 2x^3 - 29x^2 - 26x - 7$

8)
$$(9v^2 - 4u)^2$$

 $81v^4 - 72v^2u + 16u^2$

9)
$$x^3 - 7x^2 + 12x = 0$$

$$x(x-3)(x-4)=0$$

10)
$$x^2 - x - 6 = 0$$

$$(x-3)(x+2)=0$$

11)
$$x^3 - 4x^2 - 3x + 12 = 0$$

 $(x - 4)(x^2 - 3) = 0$

12)
$$x^3 - 3x^2 - 4x + 12 = 0$$

 $(x-3)(x-2)(x+2) = 0$

13)
$$x^4 - 9x^2 + 20 = 0$$

 $(x-2)(x+2)(x^2-5) = 0$

14)
$$x^4 - x^2 - 42 = 0$$

 $(x^2 + 6)(x^2 - 7) = 0$

15)
$$x^4 - 8x = 0$$

 $x(x-2)(x^2 + 2x + 4) = 0$

16)
$$x^4 - 64x = 0$$

 $x(x-4)(x^2 + 4x + 16) = 0$

17)
$$125x^4 - 27x = 0$$

 $x(5x - 3)(25x^2 + 15x + 9) = 0$

18)
$$27x^4 + 64x = 0$$

 $x(3x + 4)(9x^2 - 12x + 16) = 0$

1)
$$-3n^3 - 8n^5 - 5n^4 - 6n^2 - 5$$

2)
$$8r^2$$

4)
$$9v^2 - 6v^6 + 2v^3 - 2v^8 + v^7$$

Find each product.

5)
$$(5b+3)(4b+3)$$

6)
$$(3x-1)(6x+2)$$

7)
$$(3n^2 - 5n + 6)(-7n^2 - 5n - 7)$$

8)
$$(-4x - 6y)(-4x + 6y)$$

9)
$$x^2 + 6x + 9 = 0$$

10)
$$x^2 - 4x + 3 = 0$$

11)
$$x^3 + 2x^2 - 4x - 8 = 0$$

12)
$$x^3 + 5x^2 + 5x + 25 = 0$$

13)
$$x^4 + 3x^2 - 54 = 0$$

14)
$$x^4 - 3x^2 - 10 = 0$$

15)
$$x^4 + x = 0$$

16)
$$x^4 + 27x = 0$$

17)
$$64x^4 + 27x = 0$$

$$18) -27x^4 + 125x = 0$$

1)
$$-3n^3 - 8n^5 - 5n^4 - 6n^2 - 5$$

quintic polynomial with five terms

2)
$$8r^2$$

quadratic monomial

linear monomial

4)
$$9v^2 - 6v^6 + 2v^3 - 2v^8 + v^7$$

eighth degree polynomial with five terms

Find each product.

5)
$$(5b+3)(4b+3)$$

$$20b^2 + 27b + 9$$

6)
$$(3x-1)(6x+2)$$

$$18x^2 - 2$$

7)
$$(3n^2 - 5n + 6)(-7n^2 - 5n - 7)$$

 $-21n^4 + 20n^3 - 38n^2 + 5n - 42$

8)
$$(-4x - 6y)(-4x + 6y)$$

 $16x^2 - 36y^2$

9)
$$x^2 + 6x + 9 = 0$$

$$(x+3)^2 = 0$$

10)
$$x^2 - 4x + 3 = 0$$

$$(x-1)(x-3)=0$$

11)
$$x^3 + 2x^2 - 4x - 8 = 0$$

 $(x+2)^2(x-2) = 0$

12)
$$x^3 + 5x^2 + 5x + 25 = 0$$

 $(x+5)(x^2+5) = 0$

13)
$$x^4 + 3x^2 - 54 = 0$$

 $(x^2 - 6)(x^2 + 9) = 0$

14)
$$x^4 - 3x^2 - 10 = 0$$

 $(x^2 + 2)(x^2 - 5) = 0$

15)
$$x^4 + x = 0$$

 $x(x+1)(x^2 - x + 1) = 0$

16)
$$x^4 + 27x = 0$$

 $x(x+3)(x^2 - 3x + 9) = 0$

17)
$$64x^4 + 27x = 0$$

 $x(4x+3)(16x^2 - 12x + 9) = 0$

18)
$$-27x^4 + 125x = 0$$

 $x(3x - 5)(-9x^2 - 15x - 25) = 0$

1)
$$9a - a^4 + a^3 + 1$$

2)
$$-10r^6 + 6r^5 - 9$$

4)
$$-10n^8 + 2n^7 + 6n^4 + 7n$$

Find each product.

5)
$$(2x+5)(x-4)$$

6)
$$(8m-5)(6m-2)$$

7)
$$(-x^2 - 8x - 3)(x^2 + 6x + 6)$$

8)
$$(3y^2 - 10x)^2$$

9)
$$x^2 - x - 2 = 0$$

10)
$$x^2 + 3x - 10 = 0$$

11)
$$x^3 - 5x^2 - 3x + 15 = 0$$

12)
$$x^3 + 5x^2 + x + 5 = 0$$

13)
$$x^4 - 2x^2 - 24 = 0$$

14)
$$x^4 - 6x^2 - 16 = 0$$

15)
$$x^4 - x = 0$$

16)
$$x^4 - 8x = 0$$

17)
$$27x^4 - 8x = 0$$

18)
$$125x^4 + 64x = 0$$

1)
$$9a - a^4 + a^3 + 1$$

quartic polynomial with four terms

2)
$$-10r^6 + 6r^5 - 9$$

sixth degree trinomial

linear monomial

4)
$$-10n^8 + 2n^7 + 6n^4 + 7n$$

eighth degree polynomial with four terms

Find each product.

5)
$$(2x+5)(x-4)$$

$$2x^2 - 3x - 20$$

6)
$$(8m-5)(6m-2)$$

$$48m^2 - 46m + 10$$

7)
$$(-x^2 - 8x - 3)(x^2 + 6x + 6)$$

 $-x^4 - 14x^3 - 57x^2 - 66x - 18$

8)
$$(3y^2 - 10x)^2$$

 $9y^4 - 60y^2x + 100x^2$

9)
$$x^2 - x - 2 = 0$$

$$(x-2)(x+1)=0$$

10)
$$x^2 + 3x - 10 = 0$$

$$(x+5)(x-2)=0$$

11)
$$x^3 - 5x^2 - 3x + 15 = 0$$

 $(x - 5)(x^2 - 3) = 0$

12)
$$x^3 + 5x^2 + x + 5 = 0$$

 $(x+5)(x^2+1) = 0$

13)
$$x^4 - 2x^2 - 24 = 0$$

 $(x^2 + 4)(x^2 - 6) = 0$

14)
$$x^4 - 6x^2 - 16 = 0$$

 $(x^2 + 2)(x^2 - 8) = 0$

15)
$$x^4 - x = 0$$

 $x(x-1)(x^2 + x + 1) = 0$

16)
$$x^4 - 8x = 0$$

 $x(x-2)(x^2 + 2x + 4) = 0$

17)
$$27x^4 - 8x = 0$$

 $x(3x - 2)(9x^2 + 6x + 4) = 0$

18)
$$125x^4 + 64x = 0$$

 $x(5x + 4)(25x^2 - 20x + 16) = 0$

1)
$$-6n^8$$

2)
$$7x^2$$

3)
$$-10x^2 + 5$$

4)
$$4r^3 + 7r - 10r^2 + 8r^5 + 1$$

Find each product.

5)
$$(6x-3)(x+8)$$

6)
$$(7n+1)(5n+2)$$

7)
$$(6x^2 + 3x + 4)(6x^2 + 7x - 3)$$

8)
$$(-6x - 6y)^2$$

9)
$$x^2 - 16 = 0$$

10)
$$x^2 + 9x + 20 = 0$$

11)
$$x^3 + 3x^2 + 4x + 12 = 0$$

12)
$$x^3 + 3x^2 + x + 3 = 0$$

13)
$$x^4 - 6x^2 + 8 = 0$$

14)
$$x^4 - 13x^2 + 40 = 0$$

15)
$$x^4 + 27x = 0$$

16)
$$x^4 + 8x = 0$$

17)
$$8x^4 + 27x = 0$$

$$18) -125x^4 + 64x = 0$$

1)
$$-6n^8$$

eighth degree monomial

2)
$$7x^2$$

quadratic monomial

3)
$$-10x^2 + 5$$

quadratic binomial

4)
$$4r^3 + 7r - 10r^2 + 8r^5 + 1$$

quintic polynomial with five terms

Find each product.

5)
$$(6x-3)(x+8)$$

$$6x^2 + 45x - 24$$

6)
$$(7n+1)(5n+2)$$

$$35n^2 + 19n + 2$$

7)
$$(6x^2 + 3x + 4)(6x^2 + 7x - 3)$$

$$36x^4 + 60x^3 + 27x^2 + 19x - 12$$

8)
$$(-6x - 6y)^2$$

$$36x^2 + 72xy + 36y^2$$

9)
$$x^2 - 16 = 0$$

$$(x-4)(x+4)=0$$

10)
$$x^2 + 9x + 20 = 0$$

$$(x+5)(x+4)=0$$

11)
$$x^3 + 3x^2 + 4x + 12 = 0$$

 $(x+3)(x^2+4) = 0$

12)
$$x^3 + 3x^2 + x + 3 = 0$$

 $(x+3)(x^2+1) = 0$

13)
$$x^4 - 6x^2 + 8 = 0$$

 $(x^2 - 2)(x - 2)(x + 2) = 0$

14)
$$x^4 - 13x^2 + 40 = 0$$

 $(x^2 - 8)(x^2 - 5) = 0$

15)
$$x^4 + 27x = 0$$

 $x(x+3)(x^2 - 3x + 9) = 0$

16)
$$x^4 + 8x = 0$$

 $x(x+2)(x^2 - 2x + 4) = 0$

17)
$$8x^4 + 27x = 0$$

 $x(2x+3)(4x^2 - 6x + 9) = 0$

18)
$$-125x^4 + 64x = 0$$

 $x(5x - 4)(-25x^2 - 20x - 16) = 0$

1)
$$3x^4 - x^6$$

2)
$$-6x^5$$

3)
$$-3x^6 - 6x^7 - 8x^5 + 3x^4 + x^2 - 1$$

4)
$$7n^2$$

Find each product.

5)
$$(2n+6)(6n+1)$$

6)
$$(7x-8)(6x-7)$$

7)
$$(-6x^2 - 7x - 6)(3x^2 - 2x - 5)$$

8)
$$(8x^2 + 8y)(8x^2 - 8y)$$

9)
$$x^2 + 10x + 25 = 0$$

10)
$$x^2 - 2x - 8 = 0$$

11)
$$x^3 - x^2 - 2x + 2 = 0$$

12)
$$x^3 - 5x^2 - 4x + 20 = 0$$

13)
$$x^4 - 14x^2 + 49 = 0$$

14)
$$x^4 - 3x^2 - 10 = 0$$

15)
$$x^4 - 27x = 0$$

16)
$$x^4 - 125x = 0$$

17)
$$27x^4 + 125x = 0$$

$$18) -27x^4 + 8x = 0$$

1)
$$3x^4 - x^6$$

sixth degree binomial

2)
$$-6x^5$$

quintic monomial

3)
$$-3x^6 - 6x^7 - 8x^5 + 3x^4 + x^2 - 1$$

seventh degree polynomial with six terms

4)
$$7n^2$$

quadratic monomial

Find each product.

5)
$$(2n+6)(6n+1)$$

 $12n^2 + 38n + 6$

6)
$$(7x-8)(6x-7)$$

$$42x^2 - 97x + 56$$

7)
$$(-6x^2 - 7x - 6)(3x^2 - 2x - 5)$$

$$-18x^4 - 9x^3 + 26x^2 + 47x + 30$$

8)
$$(8x^2 + 8y)(8x^2 - 8y)$$

 $64x^4 - 64y^2$

9)
$$x^2 + 10x + 25 = 0$$

$$(x+5)^2=0$$

10)
$$x^2 - 2x - 8 = 0$$

$$(x+2)(x-4)=0$$

11)
$$x^3 - x^2 - 2x + 2 = 0$$

 $(x-1)(x^2-2) = 0$

12)
$$x^3 - 5x^2 - 4x + 20 = 0$$

 $(x - 5)(x - 2)(x + 2) = 0$

13)
$$x^4 - 14x^2 + 49 = 0$$

 $(x^2 - 7)^2 = 0$

14)
$$x^4 - 3x^2 - 10 = 0$$

 $(x^2 - 5)(x^2 + 2) = 0$

15)
$$x^4 - 27x = 0$$

 $x(x-3)(x^2 + 3x + 9) = 0$

16)
$$x^4 - 125x = 0$$

 $x(x-5)(x^2 + 5x + 25) = 0$

17)
$$27x^4 + 125x = 0$$

 $x(3x+5)(9x^2 - 15x + 25) = 0$

18)
$$-27x^4 + 8x = 0$$

 $x(3x-2)(-9x^2 - 6x - 4) = 0$

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1)
$$-7m^3 - m^4 + 5$$

2)
$$5m^{7}$$

3)
$$-10 + 10a^5$$

4)
$$-2n^3 - 3 + 3n^5 - 3n - 9n^4 - 3n^2$$

Find each product.

5)
$$(8x-4)(4x-2)$$

6)
$$(8n+3)(6n+4)$$

7)
$$(-2n^2 - 7n - 1)(2n^2 + 6n + 5)$$

8)
$$(-8y + 7x)(-8y - 7x)$$

9)
$$x^2 - 5x + 4 = 0$$

10)
$$x^2 - 4x + 3 = 0$$

11)
$$x^3 + 5x^2 + 4x + 20 = 0$$

12)
$$x^3 + 4x^2 + 2x + 8 = 0$$

13)
$$x^4 - 16x^2 + 63 = 0$$

14)
$$x^4 + 18x^2 + 81 = 0$$

15)
$$x^4 - 64x = 0$$

16)
$$x^4 - x = 0$$

17)
$$125x^4 + 64x = 0$$

18)
$$125x^4 + 8x = 0$$

1)
$$-7m^3 - m^4 + 5$$

quartic trinomial

2)
$$5m^{7}$$

seventh degree monomial

3)
$$-10 + 10a^5$$

quintic binomial

4)
$$-2n^3 - 3 + 3n^5 - 3n - 9n^4 - 3n^2$$

quintic polynomial with six terms

Find each product.

5)
$$(8x-4)(4x-2)$$

$$32x^2 - 32x + 8$$

6)
$$(8n+3)(6n+4)$$

$$48n^2 + 50n + 12$$

7)
$$(-2n^2 - 7n - 1)(2n^2 + 6n + 5)$$

$$-4n^4 - 26n^3 - 54n^2 - 41n - 5$$

8)
$$(-8y + 7x)(-8y - 7x)$$

$$64y^2 - 49x^2$$

9)
$$x^2 - 5x + 4 = 0$$

$$(x-1)(x-4)=0$$

10)
$$x^2 - 4x + 3 = 0$$

$$(x-3)(x-1)=0$$

11)
$$x^3 + 5x^2 + 4x + 20 = 0$$

 $(x+5)(x^2+4) = 0$

12)
$$x^3 + 4x^2 + 2x + 8 = 0$$

 $(x+4)(x^2+2) = 0$

13)
$$x^4 - 16x^2 + 63 = 0$$

 $(x-3)(x+3)(x^2-7) = 0$

14)
$$x^4 + 18x^2 + 81 = 0$$

 $(x^2 + 9)^2 = 0$

15)
$$x^4 - 64x = 0$$

 $x(x-4)(x^2 + 4x + 16) = 0$

16)
$$x^4 - x = 0$$

 $x(x-1)(x^2 + x + 1) = 0$

17)
$$125x^4 + 64x = 0$$

 $x(5x+4)(25x^2 - 20x + 16) = 0$

18)
$$125x^4 + 8x = 0$$

 $x(5x + 2)(25x^2 - 10x + 4) = 0$

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1)
$$-4x^2 + 9x$$

$$2) -10$$

3)
$$3x + x^3 - 5x^2 + 10x^5 - 3x^6 - 5x^7$$

4)
$$-5 + 4x$$

Find each product.

5)
$$(2a-3)(5a+5)$$

6)
$$(8b-3)(4b+5)$$

7)
$$(-6m^2 + m + 4)(-5m^2 - 5m - 1)$$

8)
$$(7a+b)(7a-b)$$

9)
$$x^2 + 9x + 20 = 0$$

10)
$$x^2 + x - 12 = 0$$

11)
$$x^3 - 3x^2 + 2x - 6 = 0$$

12)
$$x^3 - x^2 - x + 1 = 0$$

13)
$$x^4 - 81 = 0$$

14)
$$x^4 - 10x^2 + 16 = 0$$

15)
$$x^4 - 125x = 0$$

16)
$$x^4 - 64x = 0$$

17)
$$125x^4 - 8x = 0$$

$$18) -8x^4 + 125x = 0$$

1)
$$-4x^2 + 9x$$

quadratic binomial

$$2) -10$$

constant monomial

3)
$$3x + x^3 - 5x^2 + 10x^5 - 3x^6 - 5x^7$$

seventh degree polynomial with six terms

4)
$$-5 + 4x$$

linear binomial

Find each product.

5)
$$(2a-3)(5a+5)$$

$$10a^2 - 5a - 15$$

6)
$$(8b-3)(4b+5)$$

$$32b^2 + 28b - 15$$

7)
$$(-6m^2 + m + 4)(-5m^2 - 5m - 1)$$

$$30m^4 + 25m^3 - 19m^2 - 21m - 4$$

8)
$$(7a + b)(7a - b)$$

$$49a^2 - b^2$$

9)
$$x^2 + 9x + 20 = 0$$

$$(x+4)(x+5) = 0$$

10)
$$x^2 + x - 12 = 0$$

$$(x+4)(x-3)=0$$

11)
$$x^3 - 3x^2 + 2x - 6 = 0$$

 $(x - 3)(x^2 + 2) = 0$

12)
$$x^3 - x^2 - x + 1 = 0$$

 $(x-1)^2(x+1) = 0$

13)
$$x^4 - 81 = 0$$

 $(x^2 + 9)(x - 3)(x + 3) = 0$

14)
$$x^4 - 10x^2 + 16 = 0$$

 $(x^2 - 2)(x^2 - 8) = 0$

15)
$$x^4 - 125x = 0$$

 $x(x-5)(x^2 + 5x + 25) = 0$

16)
$$x^4 - 64x = 0$$

 $x(x-4)(x^2 + 4x + 16) = 0$

17)
$$125x^4 - 8x = 0$$

 $x(5x - 2)(25x^2 + 10x + 4) = 0$

18)
$$-8x^4 + 125x = 0$$

 $x(2x-5)(-4x^2 - 10x - 25) = 0$

2)
$$9 + 6n - 3n^3 + 6n^4$$

3)
$$-3n$$

4)
$$-10m^2$$

Find each product.

5)
$$(7r+8)(r+3)$$

6)
$$(7n-8)(8n+8)$$

7)
$$(2b^2 + 6b + 8)(-4b^2 - 4b - 7)$$

8)
$$(-6x^4 - 7y^3)^2$$

9)
$$x^2 - 2x - 15 = 0$$

10)
$$x^2 + 6x + 8 = 0$$

11)
$$x^3 - 3x^2 + 2x - 6 = 0$$

12)
$$x^3 - 5x^2 - 2x + 10 = 0$$

13)
$$x^4 - 4x^2 - 21 = 0$$

14)
$$x^4 + 14x^2 + 48 = 0$$

15)
$$x^4 + 27x = 0$$

16)
$$x^4 + 125x = 0$$

17)
$$64x^4 - 125x = 0$$

18)
$$125x^4 + 27x = 0$$

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linear monomial

2)
$$9 + 6n - 3n^3 + 6n^4$$

quartic polynomial with four terms

3)
$$-3n$$

linear monomial

4)
$$-10m^2$$

quadratic monomial

Find each product.

5)
$$(7r+8)(r+3)$$

$$7r^2 + 29r + 24$$

6)
$$(7n-8)(8n+8)$$

$$56n^2 - 8n - 64$$

7)
$$(2b^2 + 6b + 8)(-4b^2 - 4b - 7)$$

 $-8b^4 - 32b^3 - 70b^2 - 74b - 56$

8)
$$(-6x^4 - 7y^3)^2$$

 $36x^8 + 84x^4y^3 + 49y^6$

9)
$$x^2 - 2x - 15 = 0$$

$$(x+3)(x-5)=0$$

10)
$$x^2 + 6x + 8 = 0$$

$$(x+4)(x+2)=0$$

11)
$$x^3 - 3x^2 + 2x - 6 = 0$$

 $(x - 3)(x^2 + 2) = 0$

12)
$$x^3 - 5x^2 - 2x + 10 = 0$$

 $(x - 5)(x^2 - 2) = 0$

13)
$$x^4 - 4x^2 - 21 = 0$$

 $(x^2 + 3)(x^2 - 7) = 0$

14)
$$x^4 + 14x^2 + 48 = 0$$

 $(x^2 + 8)(x^2 + 6) = 0$

15)
$$x^4 + 27x = 0$$

 $x(x+3)(x^2 - 3x + 9) = 0$

16)
$$x^4 + 125x = 0$$

 $x(x+5)(x^2 - 5x + 25) = 0$

17)
$$64x^4 - 125x = 0$$

 $x(4x - 5)(16x^2 + 20x + 25) = 0$

18)
$$125x^4 + 27x = 0$$

 $x(5x+3)(25x^2 - 15x + 9) = 0$

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1)
$$10r^5 - 6r^2 + 1 - 5r - 10r^4$$

2)
$$-2a + 7a^3 - 6a^2 - 2a^4$$

3)
$$-5n^5 - n^3 + 5n^8 - 8n^2 + 10n^7 - 4$$

4)
$$2 + 7x^3 - 4x^4 + 4x^6$$

Find each product.

5)
$$(7p-5)(6p+6)$$

6)
$$(5x-1)(3x+2)$$

7)
$$(8n^2 + 7n - 4)(-5n^2 + 7n + 5)$$

8)
$$(-u^2 + 4v)^2$$

9)
$$x^3 - 5x^2 + 4x = 0$$

10)
$$x^2 + 2x - 15 = 0$$

11)
$$x^3 - 4x^2 + 3x - 12 = 0$$

12)
$$x^3 + 3x^2 - 5x - 15 = 0$$

13)
$$x^4 + 11x^2 + 18 = 0$$

14)
$$x^4 + x^2 - 20 = 0$$

15)
$$x^4 + 125x = 0$$

16)
$$x^4 + x = 0$$

17)
$$27x^4 + 125x = 0$$

18)
$$125x^4 - 8x = 0$$

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1)
$$10r^5 - 6r^2 + 1 - 5r - 10r^4$$

quintic polynomial with five terms

2)
$$-2a + 7a^3 - 6a^2 - 2a^4$$

quartic polynomial with four terms

3)
$$-5n^5 - n^3 + 5n^8 - 8n^2 + 10n^7 - 4$$

eighth degree polynomial with six terms

4)
$$2 + 7x^3 - 4x^4 + 4x^6$$

sixth degree polynomial with four terms

Find each product.

5)
$$(7p-5)(6p+6)$$

$$42p^2 + 12p - 30$$

6)
$$(5x-1)(3x+2)$$

$$15x^2 + 7x - 2$$

7)
$$(8n^2 + 7n - 4)(-5n^2 + 7n + 5)$$

$$-40n^4 + 21n^3 + 109n^2 + 7n - 20$$

8)
$$(-u^2 + 4v)^2$$

$$u^4 - 8u^2v + 16v^2$$

9)
$$x^3 - 5x^2 + 4x = 0$$

$$x(x-4)(x-1)=0$$

10)
$$x^2 + 2x - 15 = 0$$

$$(x-3)(x+5)=0$$

11)
$$x^3 - 4x^2 + 3x - 12 = 0$$

 $(x - 4)(x^2 + 3) = 0$

12)
$$x^3 + 3x^2 - 5x - 15 = 0$$

 $(x+3)(x^2-5) = 0$

13)
$$x^4 + 11x^2 + 18 = 0$$

 $(x^2 + 2)(x^2 + 9) = 0$

14)
$$x^4 + x^2 - 20 = 0$$

 $(x^2 + 5)(x - 2)(x + 2) = 0$

15)
$$x^4 + 125x = 0$$

 $x(x+5)(x^2 - 5x + 25) = 0$

16)
$$x^4 + x = 0$$

 $x(x+1)(x^2 - x + 1) = 0$

17)
$$27x^4 + 125x = 0$$

 $x(3x+5)(9x^2 - 15x + 25) = 0$

18)
$$125x^4 - 8x = 0$$

 $x(5x - 2)(25x^2 + 10x + 4) = 0$

1)
$$6n + 10n^2 - 7$$

2)
$$-9m^8 - 7m^6 + 5m - m^7 + 4m^5$$

4)
$$-2a + 5a^4 - 4a^2 - 8$$

Find each product.

5)
$$(3n-8)(6n+2)$$

6)
$$(4n+6)(2n+8)$$

7)
$$(m^2 + m - 5)(-m^2 + 3m - 2)$$

8)
$$(4u^2 - 4v)^2$$

9)
$$x^2 - 5x + 6 = 0$$

10)
$$x^2 - 5x + 4 = 0$$

11)
$$x^3 + 5x^2 + 3x + 15 = 0$$

12)
$$x^3 - 2x^2 + 3x - 6 = 0$$

13)
$$x^4 - x^2 - 30 = 0$$

14)
$$x^4 + 6x^2 - 27 = 0$$

15)
$$x^4 - 27x = 0$$

16)
$$x^4 + x = 0$$

17)
$$27x^4 - 64x = 0$$

18)
$$125x^4 + 27x = 0$$

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1)
$$6n + 10n^2 - 7$$
 quadratic trinomial

2)
$$-9m^8 - 7m^6 + 5m - m^7 + 4m^5$$

eighth degree polynomial with five terms

4)
$$-2a + 5a^4 - 4a^2 - 8$$

quartic polynomial with four terms

Find each product.

5)
$$(3n-8)(6n+2)$$

 $18n^2 - 42n - 16$

6)
$$(4n+6)(2n+8)$$

 $8n^2+44n+48$

7)
$$(m^2 + m - 5)(-m^2 + 3m - 2)$$

 $-m^4 + 2m^3 + 6m^2 - 17m + 10$

8)
$$(4u^2 - 4v)^2$$

 $16u^4 - 32u^2v + 16v^2$

9)
$$x^2 - 5x + 6 = 0$$

 $(x - 3)(x - 2) = 0$

10)
$$x^2 - 5x + 4 = 0$$

 $(x-4)(x-1) = 0$

11)
$$x^3 + 5x^2 + 3x + 15 = 0$$

 $(x+5)(x^2+3) = 0$

12)
$$x^3 - 2x^2 + 3x - 6 = 0$$

 $(x-2)(x^2+3) = 0$

13)
$$x^4 - x^2 - 30 = 0$$

 $(x^2 - 6)(x^2 + 5) = 0$

14)
$$x^4 + 6x^2 - 27 = 0$$

 $(x^2 - 3)(x^2 + 9) = 0$

15)
$$x^4 - 27x = 0$$

 $x(x-3)(x^2 + 3x + 9) = 0$

16)
$$x^4 + x = 0$$

 $x(x+1)(x^2 - x + 1) = 0$

17)
$$27x^4 - 64x = 0$$

 $x(3x - 4)(9x^2 + 12x + 16) = 0$

18)
$$125x^4 + 27x = 0$$

 $x(5x+3)(25x^2 - 15x + 9) = 0$

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1)
$$8x^6 + 7x^7 + x^2 + 9x^8$$

2)
$$-9 + 3v^3 - 4v - 5v^4 + 8v^5 - 2v^6$$

3)
$$3b^2 + 9b^5 + 6b - 5b^3$$

4)
$$6x^6$$

Find each product.

5)
$$(6x+1)(4x-8)$$

6)
$$(2x+1)(3x+4)$$

7)
$$(7x^2 + 6x - 4)(3x^2 + 6x + 5)$$

8)
$$(3a^2 - 6b^2)(3a^2 + 6b^2)$$

9)
$$x^2 - x - 2 = 0$$

10)
$$x^2 - 7x + 12 = 0$$

11)
$$x^3 + x^2 + 4x + 4 = 0$$

12)
$$x^3 + 5x^2 + 2x + 10 = 0$$

13)
$$x^4 + 13x^2 + 40 = 0$$

14)
$$x^4 - 13x^2 + 40 = 0$$

15)
$$x^4 - x = 0$$

16)
$$x^4 + 8x = 0$$

17)
$$27x^4 + 125x = 0$$

$$18) -27x^4 + 64x = 0$$

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1)
$$8x^6 + 7x^7 + x^2 + 9x^8$$

eighth degree polynomial with four terms

2)
$$-9 + 3v^3 - 4v - 5v^4 + 8v^5 - 2v^6$$

sixth degree polynomial with six terms

3)
$$3h^2 + 9h^5 + 6h - 5h^3$$

quintic polynomial with four terms

4)
$$6x^{6}$$

sixth degree monomial

Find each product.

5)
$$(6x+1)(4x-8)$$

$$24x^2 - 44x - 8$$

6)
$$(2x+1)(3x+4)$$

$$6x^2 + 11x + 4$$

7)
$$(7x^2 + 6x - 4)(3x^2 + 6x + 5)$$

$$21x^4 + 60x^3 + 59x^2 + 6x - 20$$

8)
$$(3a^2 - 6b^2)(3a^2 + 6b^2)$$

$$9a^4 - 36b^4$$

9)
$$x^2 - x - 2 = 0$$

$$(x-2)(x+1)=0$$

10)
$$x^2 - 7x + 12 = 0$$

$$(x-3)(x-4)=0$$

11)
$$x^3 + x^2 + 4x + 4 = 0$$

 $(x+1)(x^2+4) = 0$

12)
$$x^3 + 5x^2 + 2x + 10 = 0$$

 $(x+5)(x^2+2) = 0$

13)
$$x^4 + 13x^2 + 40 = 0$$

 $(x^2 + 8)(x^2 + 5) = 0$

14)
$$x^4 - 13x^2 + 40 = 0$$

 $(x^2 - 8)(x^2 - 5) = 0$

15)
$$x^4 - x = 0$$

 $x(x-1)(x^2 + x + 1) = 0$

16)
$$x^4 + 8x = 0$$

 $x(x+2)(x^2 - 2x + 4) = 0$

17)
$$27x^4 + 125x = 0$$

 $x(3x+5)(9x^2 - 15x + 25) = 0$

18)
$$-27x^4 + 64x = 0$$

 $x(3x-4)(-9x^2 - 12x - 16) = 0$

1)
$$5v^3 - 2v^6 - 2$$

2)
$$r^4 - 5 - 3r^2 - r - r^6 - 10r^5$$

3)
$$-10n^5 - 2n^6 + 9 + 7n^3$$

4)
$$-3r$$

Find each product.

5)
$$(7n+6)(5n+3)$$

6)
$$(7n-6)(n-7)$$

7)
$$(3x^2 - x + 6)(3x^2 + 6x - 4)$$

8)
$$(7m + 7n)^2$$

9)
$$x^2 - 3x + 2 = 0$$

10)
$$x^2 - 2x - 8 = 0$$

11)
$$x^3 - 2x^2 + 4x - 8 = 0$$

12)
$$x^3 - 5x^2 + x - 5 = 0$$

13)
$$x^4 - x^2 - 6 = 0$$

14)
$$x^4 - x^2 - 12 = 0$$

15)
$$x^4 - 8x = 0$$

16)
$$x^4 - 64x = 0$$

17)
$$64x^4 + 27x = 0$$

$$18) -8x^4 + 125x = 0$$

1)
$$5v^3 - 2v^6 - 2$$

sixth degree trinomial

2)
$$r^4 - 5 - 3r^2 - r - r^6 - 10r^5$$

sixth degree polynomial with six terms

3)
$$-10n^5 - 2n^6 + 9 + 7n^3$$

sixth degree polynomial with four terms

4)
$$-3r$$

linear monomial

Find each product.

5)
$$(7n+6)(5n+3)$$

$$35n^2 + 51n + 18$$

6)
$$(7n-6)(n-7)$$

$$7n^2 - 55n + 42$$

7)
$$(3x^2 - x + 6)(3x^2 + 6x - 4)$$

$$9x^4 + 15x^3 + 40x - 24$$

8)
$$(7m + 7n)^2$$

$$49m^2 + 98mn + 49n^2$$

9)
$$x^2 - 3x + 2 = 0$$

$$(x-2)(x-1)=0$$

10)
$$x^2 - 2x - 8 = 0$$

$$(x+2)(x-4)=0$$

11)
$$x^3 - 2x^2 + 4x - 8 = 0$$

 $(x-2)(x^2+4) = 0$

12)
$$x^3 - 5x^2 + x - 5 = 0$$

 $(x - 5)(x^2 + 1) = 0$

13)
$$x^4 - x^2 - 6 = 0$$

 $(x^2 + 2)(x^2 - 3) = 0$

14)
$$x^4 - x^2 - 12 = 0$$

 $(x^2 + 3)(x - 2)(x + 2) = 0$

15)
$$x^4 - 8x = 0$$

 $x(x-2)(x^2 + 2x + 4) = 0$

16)
$$x^4 - 64x = 0$$

 $x(x-4)(x^2 + 4x + 16) = 0$

17)
$$64x^4 + 27x = 0$$

 $x(4x+3)(16x^2 - 12x + 9) = 0$

18)
$$-8x^4 + 125x = 0$$

 $x(2x-5)(-4x^2 - 10x - 25) = 0$

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1)
$$-9x^5$$

2)
$$-4r + 5r^3$$

3)
$$8k^3 + 9k^2 - k - 3 + 7k^7 - 7k^6$$

4)
$$8x - x^2 - 7 - 5x^3$$

Find each product.

5)
$$(x-1)(8x-4)$$

6)
$$(4n+6)(6n+7)$$

7)
$$(-n^2 - n - 2)(8n^2 - 4n + 2)$$

8)
$$(6x + 6y)^2$$

9)
$$x^2 + 5x + 4 = 0$$

$$10) \ x^3 - 7x^2 + 10x = 0$$

11)
$$x^3 + 5x^2 - 4x - 20 = 0$$

12)
$$x^3 + 3x^2 - x - 3 = 0$$

13)
$$x^4 - 11x^2 + 28 = 0$$

14)
$$x^4 - 11x^2 + 30 = 0$$

15)
$$x^4 - 27x = 0$$

16)
$$x^4 + 125x = 0$$

$$17) \ -125x^4 + 27x = 0$$

$$18) -125x^4 + 8x = 0$$

1)
$$-9x^5$$

quintic monomial

2)
$$-4r + 5r^3$$

cubic binomial

3)
$$8k^3 + 9k^2 - k - 3 + 7k^7 - 7k^6$$

seventh degree polynomial with six terms

4)
$$8x - x^2 - 7 - 5x^3$$

cubic polynomial with four terms

Find each product.

5)
$$(x-1)(8x-4)$$

$$8x^2 - 12x + 4$$

6)
$$(4n+6)(6n+7)$$

$$24n^2 + 64n + 42$$

7)
$$(-n^2 - n - 2)(8n^2 - 4n + 2)$$

$$-8n^4 - 4n^3 - 14n^2 + 6n - 4$$

8)
$$(6x + 6y)^2$$

$$36x^2 + 72xy + 36y^2$$

9)
$$x^2 + 5x + 4 = 0$$

$$(x+1)(x+4)=0$$

10)
$$x^3 - 7x^2 + 10x = 0$$

$$x(x-2)(x-5)=0$$

11)
$$x^3 + 5x^2 - 4x - 20 = 0$$

 $(x+5)(x-2)(x+2) = 0$

12)
$$x^3 + 3x^2 - x - 3 = 0$$

 $(x+3)(x-1)(x+1) = 0$

13)
$$x^4 - 11x^2 + 28 = 0$$

 $(x-2)(x+2)(x^2-7) = 0$

14)
$$x^4 - 11x^2 + 30 = 0$$

 $(x^2 - 5)(x^2 - 6) = 0$

15)
$$x^4 - 27x = 0$$

 $x(x-3)(x^2 + 3x + 9) = 0$

16)
$$x^4 + 125x = 0$$

 $x(x+5)(x^2 - 5x + 25) = 0$

17)
$$-125x^4 + 27x = 0$$

 $x(5x-3)(-25x^2 - 15x - 9) = 0$

18)
$$-125x^4 + 8x = 0$$

 $x(5x - 2)(-25x^2 - 10x - 4) = 0$

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1)
$$2k^4$$

2)
$$-5x^5 + 5x - 10 + 5x^4$$

3)
$$4 - 2n^5$$

Find each product.

5)
$$(8x+4)(2x+6)$$

6)
$$(2n+3)(2n-8)$$

7)
$$(-p^2 + 2p - 7)(-3p^2 + 5p - 2)$$

8)
$$(-9y - 3x)^2$$

9)
$$x^2 - 10x + 25 = 0$$

10)
$$x^2 + 4x + 3 = 0$$

11)
$$x^3 + 5x^2 + 3x + 15 = 0$$

12)
$$x^3 + x^2 - x - 1 = 0$$

13)
$$x^4 + 10x^2 + 24 = 0$$

14)
$$x^4 + 17x^2 + 72 = 0$$

15)
$$x^4 + 64x = 0$$

16)
$$x^4 - 125x = 0$$

$$17) -27x^4 + 125x = 0$$

18)
$$125x^4 - 8x = 0$$

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1)
$$2k^4$$

quartic monomial

2)
$$-5x^5 + 5x - 10 + 5x^4$$

quintic polynomial with four terms

3)
$$4 - 2n^5$$

quintic binomial

linear monomial

Find each product.

5)
$$(8x+4)(2x+6)$$

$$16x^2 + 56x + 24$$

6)
$$(2n+3)(2n-8)$$

$$4n^2 - 10n - 24$$

7)
$$(-p^2 + 2p - 7)(-3p^2 + 5p - 2)$$

$$3p^4 - 11p^3 + 33p^2 - 39p + 14$$

8)
$$(-9y - 3x)^2$$

$$81y^2 + 54yx + 9x^2$$

9)
$$x^2 - 10x + 25 = 0$$

$$(x-5)^2=0$$

10)
$$x^2 + 4x + 3 = 0$$

$$(x+3)(x+1)=0$$

11)
$$x^3 + 5x^2 + 3x + 15 = 0$$

 $(x+5)(x^2+3) = 0$

12)
$$x^3 + x^2 - x - 1 = 0$$

 $(x+1)^2(x-1) = 0$

13)
$$x^4 + 10x^2 + 24 = 0$$

 $(x^2 + 6)(x^2 + 4) = 0$

14)
$$x^4 + 17x^2 + 72 = 0$$

 $(x^2 + 9)(x^2 + 8) = 0$

15)
$$x^4 + 64x = 0$$

 $x(x+4)(x^2 - 4x + 16) = 0$

16)
$$x^4 - 125x = 0$$

 $x(x-5)(x^2 + 5x + 25) = 0$

17)
$$-27x^4 + 125x = 0$$

 $x(3x-5)(-9x^2 - 15x - 25) = 0$

18)
$$125x^4 - 8x = 0$$

 $x(5x - 2)(25x^2 + 10x + 4) = 0$

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2)
$$8x + 5x^7$$

3)
$$9n^4 + 5n^2 + 7n^3 + 3n^6$$

4)
$$2n + n^8 - 3n^5$$

Find each product.

5)
$$(8a-2)(4a-1)$$

6)
$$(5v+7)(4v-7)$$

7)
$$(-5n^2 + 3n + 2)(-8n^2 + 3n - 4)$$

8)
$$(7a + 9b)^2$$

9)
$$x^2 + 6x + 9 = 0$$

10)
$$x^2 + x - 6 = 0$$

11)
$$x^3 + 4x^2 - 4x - 16 = 0$$

12)
$$x^3 - 2x^2 + x - 2 = 0$$

13)
$$x^4 + 16x^2 + 64 = 0$$

14)
$$x^4 + 11x^2 + 18 = 0$$

15)
$$x^4 + 27x = 0$$

16)
$$x^4 + 8x = 0$$

17)
$$27x^4 + 125x = 0$$

$$18) -125x^4 + 27x = 0$$

constant monomial

2)
$$8x + 5x^7$$

seventh degree binomial

3)
$$9n^4 + 5n^2 + 7n^3 + 3n^6$$

sixth degree polynomial with four terms

4)
$$2n + n^8 - 3n^5$$

eighth degree trinomial

Find each product.

5)
$$(8a-2)(4a-1)$$

$$32a^2 - 16a + 2$$

6)
$$(5v + 7)(4v - 7)$$

$$20v^2 - 7v - 49$$

7)
$$(-5n^2 + 3n + 2)(-8n^2 + 3n - 4)$$

$$40n^4 - 39n^3 + 13n^2 - 6n - 8$$

8)
$$(7a + 9b)^2$$

$$49a^2 + 126ab + 81b^2$$

9)
$$x^2 + 6x + 9 = 0$$

$$(x+3)^2 = 0$$

10)
$$x^2 + x - 6 = 0$$

$$(x+3)(x-2)=0$$

11)
$$x^3 + 4x^2 - 4x - 16 = 0$$

 $(x+4)(x-2)(x+2) = 0$

12)
$$x^3 - 2x^2 + x - 2 = 0$$

 $(x - 2)(x^2 + 1) = 0$

13)
$$x^4 + 16x^2 + 64 = 0$$

 $(x^2 + 8)^2 = 0$

14)
$$x^4 + 11x^2 + 18 = 0$$

 $(x^2 + 2)(x^2 + 9) = 0$

15)
$$x^4 + 27x = 0$$

 $x(x+3)(x^2 - 3x + 9) = 0$

16)
$$x^4 + 8x = 0$$

 $x(x+2)(x^2 - 2x + 4) = 0$

17)
$$27x^4 + 125x = 0$$

 $x(3x+5)(9x^2 - 15x + 25) = 0$

18)
$$-125x^4 + 27x = 0$$

 $x(5x-3)(-25x^2 - 15x - 9) = 0$

1)
$$2 + 5k^3 + 8k$$

2)
$$-10 + 6k^3 + 6k$$

3)
$$-8n^4$$

4)
$$-2k^6 - 7 - 3k + 9k^3 - 7k^4 - 10k^7$$

5)
$$(3n-4)(8n+5)$$

6)
$$(2b+5)(7b+5)$$

7)
$$(3a^2 - 5a + 5)(-3a^2 - 6a + 7)$$

8)
$$(-5x - 2y)^2$$

9)
$$x^2 - 8x + 15 = 0$$

10)
$$x^2 - x - 2 = 0$$

11)
$$x^3 + 3x^2 + 2x + 6 = 0$$

12)
$$x^3 + 2x^2 + 4x + 8 = 0$$

13)
$$x^4 + x^2 - 42 = 0$$

14)
$$x^4 - 14x^2 + 45 = 0$$

15)
$$x^4 - 27x = 0$$

16)
$$x^4 + x = 0$$

17)
$$64x^4 + 27x = 0$$

18)
$$27x^4 - 8x = 0$$

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1)
$$2 + 5k^3 + 8k$$

cubic trinomial

$$2) -10 + 6k^3 + 6k$$

cubic trinomial

3)
$$-8n^4$$

quartic monomial

4)
$$-2k^6 - 7 - 3k + 9k^3 - 7k^4 - 10k^7$$

seventh degree polynomial with six terms

Find each product.

5)
$$(3n-4)(8n+5)$$

$$24n^2 - 17n - 20$$

6)
$$(2b+5)(7b+5)$$

$$14b^2 + 45b + 25$$

7)
$$(3a^2 - 5a + 5)(-3a^2 - 6a + 7)$$

 $-9a^4 - 3a^3 + 36a^2 - 65a + 35$

8)
$$(-5x - 2y)^2$$

 $25x^2 + 20xy + 4y^2$

9)
$$x^2 - 8x + 15 = 0$$

$$(x-5)(x-3)=0$$

10)
$$x^2 - x - 2 = 0$$

$$(x-2)(x+1)=0$$

11)
$$x^3 + 3x^2 + 2x + 6 = 0$$

 $(x+3)(x^2+2) = 0$

12)
$$x^3 + 2x^2 + 4x + 8 = 0$$

 $(x+2)(x^2+4) = 0$

13)
$$x^4 + x^2 - 42 = 0$$

 $(x^2 + 7)(x^2 - 6) = 0$

14)
$$x^4 - 14x^2 + 45 = 0$$

 $(x^2 - 5)(x - 3)(x + 3) = 0$

15)
$$x^4 - 27x = 0$$

 $x(x-3)(x^2 + 3x + 9) = 0$

16)
$$x^4 + x = 0$$

 $x(x+1)(x^2 - x + 1) = 0$

17)
$$64x^4 + 27x = 0$$

 $x(4x+3)(16x^2 - 12x + 9) = 0$

18)
$$27x^4 - 8x = 0$$

 $x(3x - 2)(9x^2 + 6x + 4) = 0$

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1)
$$9a^3 - a^2$$

2)
$$-x + 5$$

3)
$$-2n^6 + n^2 + 6n$$

4)
$$9n + 8n^2$$

Find each product.

5)
$$(x+2)(3x+6)$$

6)
$$(6v-6)(2v+5)$$

7)
$$(8v^2 + 3v - 4)(5v^2 - v + 5)$$

8)
$$(8x + 10y)(8x - 10y)$$

9)
$$x^2 - x - 2 = 0$$

10)
$$x^2 + 2x - 15 = 0$$

11)
$$x^3 - 3x^2 + x - 3 = 0$$

12)
$$x^3 + 3x^2 + 4x + 12 = 0$$

13)
$$x^4 + x^2 - 42 = 0$$

14)
$$x^4 - x^2 - 12 = 0$$

15)
$$x^4 + 125x = 0$$

16)
$$x^4 - 27x = 0$$

17)
$$27x^4 - 64x = 0$$

18)
$$125x^4 - 8x = 0$$

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1)
$$9a^3 - a^2$$

cubic binomial

2)
$$-x + 5$$

linear binomial

3)
$$-2n^6 + n^2 + 6n$$

sixth degree trinomial

4)
$$9n + 8n^2$$

quadratic binomial

Find each product.

5)
$$(x+2)(3x+6)$$

$$3x^2 + 12x + 12$$

6)
$$(6v-6)(2v+5)$$

$$12v^2 + 18v - 30$$

7)
$$(8v^2 + 3v - 4)(5v^2 - v + 5)$$

$$40v^4 + 7v^3 + 17v^2 + 19v - 20$$

8)
$$(8x + 10y)(8x - 10y)$$

$$64x^2 - 100y^2$$

9)
$$x^2 - x - 2 = 0$$

$$(x-2)(x+1)=0$$

10)
$$x^2 + 2x - 15 = 0$$

$$(x+5)(x-3)=0$$

11)
$$x^3 - 3x^2 + x - 3 = 0$$

 $(x - 3)(x^2 + 1) = 0$

12)
$$x^3 + 3x^2 + 4x + 12 = 0$$

 $(x+3)(x^2+4) = 0$

13)
$$x^4 + x^2 - 42 = 0$$

 $(x^2 + 7)(x^2 - 6) = 0$

14)
$$x^4 - x^2 - 12 = 0$$

 $(x-2)(x+2)(x^2+3) = 0$

15)
$$x^4 + 125x = 0$$

 $x(x+5)(x^2 - 5x + 25) = 0$

16)
$$x^4 - 27x = 0$$

 $x(x-3)(x^2 + 3x + 9) = 0$

17)
$$27x^4 - 64x = 0$$

 $x(3x - 4)(9x^2 + 12x + 16) = 0$

18)
$$125x^4 - 8x = 0$$

 $x(5x - 2)(25x^2 + 10x + 4) = 0$

1)
$$7n^{7}$$

2)
$$8n^7 - 8n^5 + 2n - n^2 - 5 + 10n^4$$

3)
$$-2r^5 + 7 - r + r^6$$

4)
$$-x$$

5)
$$(8p+1)(6p+1)$$

6)
$$(4v+7)(5v-6)$$

7)
$$(4x^2 + 6x - 8)(6x^2 + 2x - 2)$$

8)
$$(6x + 10y)(6x - 10y)$$

9)
$$x^2 - x - 20 = 0$$

10)
$$x^2 - 5x + 6 = 0$$

11)
$$x^3 + 5x^2 - 4x - 20 = 0$$

12)
$$x^3 - 3x^2 + 2x - 6 = 0$$

13)
$$x^4 - 7x^2 - 18 = 0$$

14)
$$x^4 + 15x^2 + 54 = 0$$

15)
$$x^4 + 8x = 0$$

16)
$$x^4 + 64x = 0$$

17)
$$8x^4 + 125x = 0$$

18)
$$125x^4 + 64x = 0$$

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1)
$$7n^{7}$$

seventh degree monomial

2)
$$8n^7 - 8n^5 + 2n - n^2 - 5 + 10n^4$$

seventh degree polynomial with six terms

3)
$$-2r^5 + 7 - r + r^6$$

sixth degree polynomial with four terms

4)
$$-x$$

linear monomial

Find each product.

5)
$$(8p+1)(6p+1)$$

$$48p^2 + 14p + 1$$

6)
$$(4v+7)(5v-6)$$

$$20v^2 + 11v - 42$$

7)
$$(4x^2 + 6x - 8)(6x^2 + 2x - 2)$$

$$24x^4 + 44x^3 - 44x^2 - 28x + 16$$

8)
$$(6x + 10y)(6x - 10y)$$

$$36x^2 - 100y^2$$

9)
$$x^2 - x - 20 = 0$$

$$(x-5)(x+4)=0$$

10)
$$x^2 - 5x + 6 = 0$$

$$(x-2)(x-3)=0$$

11)
$$x^3 + 5x^2 - 4x - 20 = 0$$

 $(x+5)(x-2)(x+2) = 0$

12)
$$x^3 - 3x^2 + 2x - 6 = 0$$

 $(x - 3)(x^2 + 2) = 0$

13)
$$x^4 - 7x^2 - 18 = 0$$

 $(x-3)(x+3)(x^2+2) = 0$

14)
$$x^4 + 15x^2 + 54 = 0$$

 $(x^2 + 6)(x^2 + 9) = 0$

15)
$$x^4 + 8x = 0$$

 $x(x+2)(x^2 - 2x + 4) = 0$

16)
$$x^4 + 64x = 0$$

 $x(x+4)(x^2 - 4x + 16) = 0$

17)
$$8x^4 + 125x = 0$$

 $x(2x+5)(4x^2 - 10x + 25) = 0$

18)
$$125x^4 + 64x = 0$$

 $x(5x + 4)(25x^2 - 20x + 16) = 0$

1)
$$3 + 3k^2$$

2)
$$3a^4 - 3a^6 + 2a + 4a^5 + 3 + 3a^2$$

5)
$$(6x-8)(4x-3)$$

6)
$$(x+6)(8x+1)$$

7)
$$(3x^2 + x - 1)(x^2 + 8x - 2)$$

8)
$$(10x + 10y)^2$$

9)
$$x^2 + 8x + 15 = 0$$

10)
$$x^2 + 6x + 5 = 0$$

11)
$$x^3 - 2x^2 - 3x + 6 = 0$$

12)
$$x^3 + 4x^2 + x + 4 = 0$$

13)
$$x^4 + 6x^2 + 5 = 0$$

14)
$$x^4 - 14x^2 + 49 = 0$$

15)
$$x^4 + 8x = 0$$

16)
$$x^4 - 125x = 0$$

17)
$$125x^4 + 8x = 0$$

18)
$$27x^4 + 64x = 0$$

1)
$$3 + 3k^2$$

quadratic binomial

2)
$$3a^4 - 3a^6 + 2a + 4a^5 + 3 + 3a^2$$

sixth degree polynomial with six terms

linear monomial

$$4) -2$$

constant monomial

Find each product.

5)
$$(6x-8)(4x-3)$$

$$24x^2 - 50x + 24$$

6)
$$(x+6)(8x+1)$$

$$8x^2 + 49x + 6$$

7)
$$(3x^2 + x - 1)(x^2 + 8x - 2)$$

$$3x^4 + 25x^3 + x^2 - 10x + 2$$

8)
$$(10x + 10y)^2$$

$$100x^2 + 200xy + 100y^2$$

9)
$$x^2 + 8x + 15 = 0$$

$$(x+5)(x+3)=0$$

10)
$$x^2 + 6x + 5 = 0$$

$$(x+1)(x+5) = 0$$

11)
$$x^3 - 2x^2 - 3x + 6 = 0$$

 $(x-2)(x^2-3) = 0$

12)
$$x^3 + 4x^2 + x + 4 = 0$$

 $(x+4)(x^2+1) = 0$

13)
$$x^4 + 6x^2 + 5 = 0$$

 $(x^2 + 1)(x^2 + 5) = 0$

14)
$$x^4 - 14x^2 + 49 = 0$$

 $(x^2 - 7)^2 = 0$

15)
$$x^4 + 8x = 0$$

 $x(x+2)(x^2 - 2x + 4) = 0$

16)
$$x^4 - 125x = 0$$

 $x(x-5)(x^2 + 5x + 25) = 0$

17)
$$125x^4 + 8x = 0$$

 $x(5x + 2)(25x^2 - 10x + 4) = 0$

18)
$$27x^4 + 64x = 0$$

 $x(3x + 4)(9x^2 - 12x + 16) = 0$

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1)
$$1 + 7n^3 - n^4 - 5n^2 - 8n$$

2)
$$-4n^7$$

3)
$$-1 + 10x^2 + 9x^5 + 2x^3 + 3x$$

4)
$$-4x^6 + 3x$$

Find each product.

5)
$$(6n-6)(n+6)$$

6)
$$(8n+7)(6n-6)$$

7)
$$(7m^2 + 5m - 2)(-6m^2 + 6m - 7)$$

8)
$$(7a - 10b)^2$$

9)
$$x^2 + x - 12 = 0$$

10)
$$x^2 + x - 6 = 0$$

11)
$$x^3 + x^2 + 2x + 2 = 0$$

12)
$$x^3 + 2x^2 + 3x + 6 = 0$$

13)
$$x^4 + 3x^2 - 18 = 0$$

14)
$$x^4 + 7x^2 + 12 = 0$$

15)
$$x^4 - 64x = 0$$

16)
$$x^4 + 27x = 0$$

17)
$$27x^4 + 64x = 0$$

18)
$$27x^4 + 8x = 0$$

$\ ^{\odot}$ 2 02 5 K u t a Software L L C . All rights reserved . Name each polynomial by degree and number of terms.

1)
$$1 + 7n^3 - n^4 - 5n^2 - 8n$$

quartic polynomial with five terms

2)
$$-4n^7$$

seventh degree monomial

3)
$$-1 + 10x^2 + 9x^5 + 2x^3 + 3x$$

quintic polynomial with five terms

4)
$$-4x^6 + 3x$$

sixth degree binomial

Find each product.

5)
$$(6n-6)(n+6)$$

$$6n^2 + 30n - 36$$

6)
$$(8n+7)(6n-6)$$

$$48n^2 - 6n - 42$$

7)
$$(7m^2 + 5m - 2)(-6m^2 + 6m - 7)$$

$$-42m^4 + 12m^3 - 7m^2 - 47m + 14$$

8)
$$(7a - 10b)^2$$

$$49a^2 - 140ab + 100b^2$$

9)
$$x^2 + x - 12 = 0$$

$$(x-3)(x+4)=0$$

10)
$$x^2 + x - 6 = 0$$

$$(x+3)(x-2)=0$$

11)
$$x^3 + x^2 + 2x + 2 = 0$$

 $(x+1)(x^2+2) = 0$

12)
$$x^3 + 2x^2 + 3x + 6 = 0$$

 $(x+2)(x^2+3) = 0$

13)
$$x^4 + 3x^2 - 18 = 0$$

 $(x^2 - 3)(x^2 + 6) = 0$

14)
$$x^4 + 7x^2 + 12 = 0$$

 $(x^2 + 3)(x^2 + 4) = 0$

15)
$$x^4 - 64x = 0$$

 $x(x-4)(x^2 + 4x + 16) = 0$

16)
$$x^4 + 27x = 0$$

 $x(x+3)(x^2 - 3x + 9) = 0$

17)
$$27x^4 + 64x = 0$$

 $x(3x+4)(9x^2 - 12x + 16) = 0$

18)
$$27x^4 + 8x = 0$$

 $x(3x+2)(9x^2 - 6x + 4) = 0$

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1)
$$-2m^2$$

2)
$$-5a - 10$$

3)
$$5n^3 - 7n$$

4)
$$3n^7 - 3n^4$$

Find each product.

5)
$$(7x+6)(6x+1)$$

6)
$$(5r+8)(5r-4)$$

7)
$$(8x^2 - 8x - 2)(2x^2 - 4x + 1)$$

8)
$$(-10x^2 - 2y)(-10x^2 + 2y)$$

9)
$$x^2 + 5x + 6 = 0$$

10)
$$x^2 + 3x - 4 = 0$$

11)
$$x^3 - 2x^2 + 4x - 8 = 0$$

12)
$$x^3 - x^2 + 3x - 3 = 0$$

13)
$$x^4 + 4x^2 + 3 = 0$$

14)
$$x^4 - 5x^2 - 36 = 0$$

15)
$$x^4 + 8x = 0$$

16)
$$x^4 - x = 0$$

17)
$$8x^4 + 27x = 0$$

$$18) -125x^4 + 27x = 0$$

1)
$$-2m^2$$

quadratic monomial

2)
$$-5a - 10$$

linear binomial

3)
$$5n^3 - 7n$$

cubic binomial

4)
$$3n^7 - 3n^4$$

seventh degree binomial

Find each product.

5)
$$(7x+6)(6x+1)$$

$$42x^2 + 43x + 6$$

6)
$$(5r+8)(5r-4)$$

$$25r^2 + 20r - 32$$

7)
$$(8x^2 - 8x - 2)(2x^2 - 4x + 1)$$

$$16x^4 - 48x^3 + 36x^2 - 2$$

8)
$$(-10x^2 - 2y)(-10x^2 + 2y)$$

$$100x^4 - 4y^2$$

9)
$$x^2 + 5x + 6 = 0$$

$$(x+2)(x+3) = 0$$

10)
$$x^2 + 3x - 4 = 0$$

$$(x-1)(x+4)=0$$

11)
$$x^3 - 2x^2 + 4x - 8 = 0$$

 $(x - 2)(x^2 + 4) = 0$

12)
$$x^3 - x^2 + 3x - 3 = 0$$

 $(x-1)(x^2+3) = 0$

13)
$$x^4 + 4x^2 + 3 = 0$$

 $(x^2 + 1)(x^2 + 3) = 0$

14)
$$x^4 - 5x^2 - 36 = 0$$

 $(x-3)(x+3)(x^2+4) = 0$

15)
$$x^4 + 8x = 0$$

 $x(x+2)(x^2 - 2x + 4) = 0$

16)
$$x^4 - x = 0$$

 $x(x-1)(x^2 + x + 1) = 0$

17)
$$8x^4 + 27x = 0$$

 $x(2x+3)(4x^2 - 6x + 9) = 0$

18)
$$-125x^4 + 27x = 0$$

 $x(5x-3)(-25x^2 - 15x - 9) = 0$

1)
$$x + 10$$

2)
$$-9x^6$$

3)
$$-x^3 + 10x^4 - 9x + 10 + 7x^2$$

4)
$$9n^5 - 3n + 4n^3$$

5)
$$(6p+2)(4p-3)$$

6)
$$(6a-4)(6a-8)$$

7)
$$(-5n^2 - 3n + 8)(-7n^2 + 7n + 2)$$

8)
$$(5x + y)(5x - y)$$

9)
$$x^2 + 4x + 3 = 0$$

10)
$$x^2 + 10x + 25 = 0$$

11)
$$x^3 + 2x^2 - 5x - 10 = 0$$

12)
$$x^3 - 5x^2 + x - 5 = 0$$

13)
$$x^4 + 4x^2 - 12 = 0$$

14)
$$x^4 - 12x^2 + 35 = 0$$

15)
$$x^4 + 64x = 0$$

16)
$$x^4 + 125x = 0$$

17)
$$125x^4 - 8x = 0$$

$$18) -27x^4 + 125x = 0$$

1)
$$x + 10$$

linear binomial

2)
$$-9x^6$$

sixth degree monomial

3)
$$-x^3 + 10x^4 - 9x + 10 + 7x^2$$

quartic polynomial with five terms

4)
$$9n^5 - 3n + 4n^3$$

quintic trinomial

Find each product.

5)
$$(6p+2)(4p-3)$$

$$24p^2 - 10p - 6$$

6)
$$(6a-4)(6a-8)$$

$$36a^2 - 72a + 32$$

7)
$$(-5n^2 - 3n + 8)(-7n^2 + 7n + 2)$$

$$35n^4 - 14n^3 - 87n^2 + 50n + 16$$

8)
$$(5x + y)(5x - y)$$

$$25x^2 - y^2$$

9)
$$x^2 + 4x + 3 = 0$$

$$(x+1)(x+3) = 0$$

10)
$$x^2 + 10x + 25 = 0$$

$$(x+5)^2=0$$

11)
$$x^3 + 2x^2 - 5x - 10 = 0$$

 $(x+2)(x^2-5) = 0$

12)
$$x^3 - 5x^2 + x - 5 = 0$$

 $(x - 5)(x^2 + 1) = 0$

13)
$$x^4 + 4x^2 - 12 = 0$$

 $(x^2 - 2)(x^2 + 6) = 0$

14)
$$x^4 - 12x^2 + 35 = 0$$

 $(x^2 - 5)(x^2 - 7) = 0$

15)
$$x^4 + 64x = 0$$

 $x(x+4)(x^2 - 4x + 16) = 0$

16)
$$x^4 + 125x = 0$$

 $x(x+5)(x^2 - 5x + 25) = 0$

17)
$$125x^4 - 8x = 0$$

 $x(5x - 2)(25x^2 + 10x + 4) = 0$

18)
$$-27x^4 + 125x = 0$$

 $x(3x - 5)(-9x^2 - 15x - 25) = 0$

1)
$$5x^6 + 5x^5 + 4x^3 + 5x^7 - 2 + 3x^4$$

2)
$$-6p - 7 - 10p^4 - p^3 - 2p^2$$

3)
$$4v + 4v^3$$

4)
$$-6k^4$$

5)
$$(7x-3)(7x+5)$$

6)
$$(8x-4)(5x-6)$$

7)
$$(-8k^2 - 8k + 4)(-k^2 + 4k + 4)$$

8)
$$(4x^3 - 6y^2)(4x^3 + 6y^2)$$

9)
$$x^2 + 5x + 6 = 0$$

10)
$$x^3 + 10x^2 + 25x = 0$$

11)
$$x^3 + 5x^2 + 3x + 15 = 0$$

12)
$$x^3 - x^2 - 2x + 2 = 0$$

13)
$$x^4 - 18x^2 + 81 = 0$$

14)
$$x^4 - 4x^2 - 12 = 0$$

15)
$$x^4 - 125x = 0$$

16)
$$x^4 + x = 0$$

17)
$$27x^4 - 8x = 0$$

18)
$$8x^4 + 125x = 0$$

1)
$$5x^6 + 5x^5 + 4x^3 + 5x^7 - 2 + 3x^4$$

seventh degree polynomial with six terms

2)
$$-6p - 7 - 10p^4 - p^3 - 2p^2$$

quartic polynomial with five terms

3)
$$4v + 4v^3$$

cubic binomial

4)
$$-6k^4$$

quartic monomial

Find each product.

5)
$$(7x-3)(7x+5)$$

$$49x^2 + 14x - 15$$

6)
$$(8x-4)(5x-6)$$

$$40x^2 - 68x + 24$$

7)
$$(-8k^2 - 8k + 4)(-k^2 + 4k + 4)$$

$$8k^4 - 24k^3 - 68k^2 - 16k + 16$$

8)
$$(4x^3 - 6y^2)(4x^3 + 6y^2)$$

$$16x^6 - 36y^4$$

9)
$$x^2 + 5x + 6 = 0$$

$$(x+3)(x+2)=0$$

10)
$$x^3 + 10x^2 + 25x = 0$$

$$x(x+5)^2=0$$

11)
$$x^3 + 5x^2 + 3x + 15 = 0$$

 $(x+5)(x^2+3) = 0$

12)
$$x^3 - x^2 - 2x + 2 = 0$$

 $(x-1)(x^2-2) = 0$

13)
$$x^4 - 18x^2 + 81 = 0$$

 $(x-3)^2 \cdot (x+3)^2 = 0$

14)
$$x^4 - 4x^2 - 12 = 0$$

 $(x^2 + 2)(x^2 - 6) = 0$

15)
$$x^4 - 125x = 0$$

 $x(x-5)(x^2 + 5x + 25) = 0$

16)
$$x^4 + x = 0$$

 $x(x+1)(x^2 - x + 1) = 0$

17)
$$27x^4 - 8x = 0$$

 $x(3x - 2)(9x^2 + 6x + 4) = 0$

18)
$$8x^4 + 125x = 0$$

 $x(2x+5)(4x^2 - 10x + 25) = 0$

1)
$$5b^4 - 6 - 10b^2$$

2)
$$-4k + 5k^2$$

3)
$$-7x^3 + 7x^6 + 1 + 7x^2 - 6x$$

4)
$$-10x^4 + 2$$

Find each product.

5)
$$(6m+4)(7m-8)$$

6)
$$(5b-1)(3b+1)$$

7)
$$(-7n^2 - 5n + 6)(3n^2 - 2n - 1)$$

8)
$$(-9u - 2v^2)^2$$

9)
$$x^2 + 10x + 25 = 0$$

10)
$$x^2 - 8x + 15 = 0$$

11)
$$x^3 - x^2 - 4x + 4 = 0$$

12)
$$x^3 + 3x^2 - 5x - 15 = 0$$

13)
$$x^4 + 12x^2 + 35 = 0$$

14)
$$x^4 + 14x^2 + 45 = 0$$

15)
$$x^4 + 64x = 0$$

16)
$$x^4 - 125x = 0$$

17)
$$8x^4 + 125x = 0$$

18)
$$64x^4 - 125x = 0$$

1)
$$5b^4 - 6 - 10b^2$$

quartic trinomial

2)
$$-4k + 5k^2$$

quadratic binomial

3)
$$-7x^3 + 7x^6 + 1 + 7x^2 - 6x$$

sixth degree polynomial with five terms

4)
$$-10x^4 + 2$$

quartic binomial

Find each product.

5)
$$(6m+4)(7m-8)$$

$$42m^2 - 20m - 32$$

6)
$$(5b-1)(3b+1)$$

$$15b^2 + 2b - 1$$

7)
$$(-7n^2 - 5n + 6)(3n^2 - 2n - 1)$$

$$-21n^4 - n^3 + 35n^2 - 7n - 6$$

8)
$$(-9u - 2v^2)^2$$

$$81u^2 + 36uv^2 + 4v^4$$

9)
$$x^2 + 10x + 25 = 0$$

$$(x+5)^2=0$$

10)
$$x^2 - 8x + 15 = 0$$

$$(x-3)(x-5)=0$$

11)
$$x^3 - x^2 - 4x + 4 = 0$$

 $(x-1)(x-2)(x+2) = 0$

12)
$$x^3 + 3x^2 - 5x - 15 = 0$$

 $(x+3)(x^2-5) = 0$

13)
$$x^4 + 12x^2 + 35 = 0$$

 $(x^2 + 5)(x^2 + 7) = 0$

14)
$$x^4 + 14x^2 + 45 = 0$$

 $(x^2 + 5)(x^2 + 9) = 0$

15)
$$x^4 + 64x = 0$$

 $x(x+4)(x^2 - 4x + 16) = 0$

16)
$$x^4 - 125x = 0$$

 $x(x-5)(x^2 + 5x + 25) = 0$

17)
$$8x^4 + 125x = 0$$

 $x(2x+5)(4x^2 - 10x + 25) = 0$

18)
$$64x^4 - 125x = 0$$

 $x(4x - 5)(16x^2 + 20x + 25) = 0$

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1)
$$v + 6v^2 + 2v^5 - v^4 + 5v^3$$

2)
$$2 + 2v$$

3)
$$5a^2$$

4)
$$4 - 2n$$

Find each product.

5)
$$(3r+1)(2r-3)$$

6)
$$(8x-2)(x+6)$$

7)
$$(2v^2 + 2v - 8)(6v^2 - 7v + 4)$$

8)
$$(3v + 2u^2)(3v - 2u^2)$$

9)
$$x^2 + 3x + 2 = 0$$

10)
$$x^2 - 7x + 10 = 0$$

11)
$$x^3 - 2x^2 + 3x - 6 = 0$$

12)
$$x^3 - x^2 - 3x + 3 = 0$$

13)
$$x^4 + 7x^2 + 12 = 0$$

14)
$$x^4 + x^2 - 72 = 0$$

15)
$$x^4 + 8x = 0$$

16)
$$x^4 - 27x = 0$$

$$17) -125x^4 + 64x = 0$$

18)
$$27x^4 - 8x = 0$$

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1)
$$v + 6v^2 + 2v^5 - v^4 + 5v^3$$

quintic polynomial with five terms

2)
$$2 + 2v$$

linear binomial

3)
$$5a^2$$

quadratic monomial

4)
$$4 - 2n$$

linear binomial

Find each product.

5)
$$(3r+1)(2r-3)$$

$$6r^2 - 7r - 3$$

6)
$$(8x-2)(x+6)$$

$$8x^2 + 46x - 12$$

7)
$$(2v^2 + 2v - 8)(6v^2 - 7v + 4)$$

$$12v^4 - 2v^3 - 54v^2 + 64v - 32$$

8)
$$(3v + 2u^2)(3v - 2u^2)$$

$$9v^2 - 4u^4$$

9)
$$x^2 + 3x + 2 = 0$$

$$(x+1)(x+2)=0$$

10)
$$x^2 - 7x + 10 = 0$$

$$(x-2)(x-5)=0$$

11)
$$x^3 - 2x^2 + 3x - 6 = 0$$

 $(x - 2)(x^2 + 3) = 0$

12)
$$x^3 - x^2 - 3x + 3 = 0$$

 $(x-1)(x^2-3) = 0$

13)
$$x^4 + 7x^2 + 12 = 0$$

 $(x^2 + 3)(x^2 + 4) = 0$

14)
$$x^4 + x^2 - 72 = 0$$

 $(x^2 + 9)(x^2 - 8) = 0$

15)
$$x^4 + 8x = 0$$

 $x(x+2)(x^2 - 2x + 4) = 0$

16)
$$x^4 - 27x = 0$$

 $x(x-3)(x^2 + 3x + 9) = 0$

17)
$$-125x^4 + 64x = 0$$

 $x(5x - 4)(-25x^2 - 20x - 16) = 0$

18)
$$27x^4 - 8x = 0$$

 $x(3x - 2)(9x^2 + 6x + 4) = 0$

1)
$$-7k^3$$

2)
$$-6n^4 + 2n^3$$

3)
$$-2m^4$$

5)
$$(3x-4)(3x+1)$$

6)
$$(3a+2)(4a+1)$$

7)
$$(4r^2 + 4r + 8)(8r^2 + r + 2)$$

8)
$$(-8m-7n)(-8m+7n)$$

9)
$$x^2 - 7x + 12 = 0$$

10)
$$x^2 - 4x + 3 = 0$$

11)
$$x^3 - 2x^2 + x - 2 = 0$$

12)
$$x^3 + 3x^2 + 4x + 12 = 0$$

13)
$$x^4 - 2x^2 + 1 = 0$$

14)
$$x^4 + 8x^2 - 9 = 0$$

15)
$$x^4 + 8x = 0$$

16)
$$x^4 + x = 0$$

17)
$$125x^4 - 64x = 0$$

18)
$$125x^4 - 8x = 0$$

1)
$$-7k^3$$

cubic monomial

2)
$$-6n^4 + 2n^3$$

quartic binomial

3)
$$-2m^4$$

quartic monomial

constant monomial

Find each product.

5)
$$(3x-4)(3x+1)$$

$$9x^2 - 9x - 4$$

6)
$$(3a+2)(4a+1)$$

$$12a^2 + 11a + 2$$

7)
$$(4r^2 + 4r + 8)(8r^2 + r + 2)$$

$$32r^4 + 36r^3 + 76r^2 + 16r + 16$$

8)
$$(-8m - 7n)(-8m + 7n)$$

 $64m^2 - 49n^2$

9)
$$x^2 - 7x + 12 = 0$$

$$(x-4)(x-3)=0$$

10)
$$x^2 - 4x + 3 = 0$$

$$(x-3)(x-1)=0$$

11)
$$x^3 - 2x^2 + x - 2 = 0$$

 $(x - 2)(x^2 + 1) = 0$

12)
$$x^3 + 3x^2 + 4x + 12 = 0$$

 $(x+3)(x^2+4) = 0$

13)
$$x^4 - 2x^2 + 1 = 0$$

 $(x-1)^2 \cdot (x+1)^2 = 0$

14)
$$x^4 + 8x^2 - 9 = 0$$

 $(x^2 + 9)(x - 1)(x + 1) = 0$

15)
$$x^4 + 8x = 0$$

 $x(x+2)(x^2 - 2x + 4) = 0$

16)
$$x^4 + x = 0$$

 $x(x+1)(x^2 - x + 1) = 0$

17)
$$125x^4 - 64x = 0$$

 $x(5x - 4)(25x^2 + 20x + 16) = 0$

18)
$$125x^4 - 8x = 0$$

 $x(5x - 2)(25x^2 + 10x + 4) = 0$

1)
$$5x - x^2 + 1$$

2)
$$r^2 + 10r - 4r^3$$

3)
$$9b^{7}$$

4)
$$-2 - k^3 + 4k - 3k^2$$

5)
$$(7x+3)(6x-4)$$

6)
$$(7k+3)(3k-8)$$

7)
$$(-7x^2 + 3x - 7)(-4x^2 - 3x - 5)$$

8)
$$(-7m + 5n)^2$$

9)
$$x^2 + x - 6 = 0$$

10)
$$x^2 - 5x + 4 = 0$$

11)
$$x^3 - 4x^2 - 2x + 8 = 0$$

12)
$$x^3 + 2x^2 - 4x - 8 = 0$$

13)
$$x^4 - 8x^2 - 9 = 0$$

14)
$$x^4 - 10x^2 + 24 = 0$$

15)
$$x^4 + 125x = 0$$

16)
$$x^4 - 64x = 0$$

17)
$$-8x^4 + 125x = 0$$

18)
$$64x^4 - 125x = 0$$

1)
$$5x - x^2 + 1$$

quadratic trinomial

2)
$$r^2 + 10r - 4r^3$$

cubic trinomial

3)
$$9b^{7}$$

seventh degree monomial

4)
$$-2 - k^3 + 4k - 3k^2$$

cubic polynomial with four terms

Find each product.

5)
$$(7x+3)(6x-4)$$

$$42x^2 - 10x - 12$$

6)
$$(7k+3)(3k-8)$$

$$21k^2 - 47k - 24$$

7)
$$(-7x^2 + 3x - 7)(-4x^2 - 3x - 5)$$

$$28x^4 + 9x^3 + 54x^2 + 6x + 35$$

8)
$$(-7m + 5n)^2$$

$$49m^2 - 70mn + 25n^2$$

9)
$$x^2 + x - 6 = 0$$

$$(x-2)(x+3)=0$$

10)
$$x^2 - 5x + 4 = 0$$

$$(x-1)(x-4)=0$$

11)
$$x^3 - 4x^2 - 2x + 8 = 0$$

 $(x-4)(x^2-2) = 0$

12)
$$x^3 + 2x^2 - 4x - 8 = 0$$

 $(x+2)^2(x-2) = 0$

13)
$$x^4 - 8x^2 - 9 = 0$$

 $(x-3)(x+3)(x^2+1) = 0$

14)
$$x^4 - 10x^2 + 24 = 0$$

 $(x^2 - 6)(x - 2)(x + 2) = 0$

15)
$$x^4 + 125x = 0$$

 $x(x+5)(x^2 - 5x + 25) = 0$

16)
$$x^4 - 64x = 0$$

 $x(x-4)(x^2 + 4x + 16) = 0$

17)
$$-8x^4 + 125x = 0$$

 $x(2x-5)(-4x^2 - 10x - 25) = 0$

18)
$$64x^4 - 125x = 0$$

 $x(4x - 5)(16x^2 + 20x + 25) = 0$

1)
$$v^2$$

2)
$$6b^3 + 2b + 8 + 3b^4$$

3)
$$-9x^2$$

4)
$$-3x^2 - 7x^3 + x$$

5)
$$(2p-3)(5p+7)$$

6)
$$(8p-4)(6p-8)$$

7)
$$(6x^2 + x - 7)(-8x^2 - 4x - 3)$$

8)
$$(-3v - 10u)^2$$

9)
$$x^2 - x - 20 = 0$$

10)
$$x^2 - 2x - 8 = 0$$

11)
$$x^3 - x^2 - 4x + 4 = 0$$

12)
$$x^3 - 2x^2 + 4x - 8 = 0$$

13)
$$x^4 - 7x^2 - 8 = 0$$

14)
$$x^4 - 4 = 0$$

15)
$$x^4 + 125x = 0$$

16)
$$x^4 - 64x = 0$$

17)
$$-8x^4 + 125x = 0$$

18)
$$64x^4 + 125x = 0$$

1)
$$v^{2}$$

quadratic monomial

2)
$$6b^3 + 2b + 8 + 3b^4$$

quartic polynomial with four terms

3)
$$-9x^2$$

quadratic monomial

4)
$$-3x^2 - 7x^3 + x$$

cubic trinomial

Find each product.

5)
$$(2p-3)(5p+7)$$

 $10p^2 - p - 21$

6)
$$(8p-4)(6p-8)$$

$$48p^2 - 88p + 32$$

7)
$$(6x^2 + x - 7)(-8x^2 - 4x - 3)$$

-48 x^4 - 32 x^3 + 34 x^2 + 25 x + 21

8)
$$(-3v - 10u)^2$$

$$9v^2 + 60vu + 100u^2$$

9)
$$x^2 - x - 20 = 0$$

$$(x+4)(x-5)=0$$

10)
$$x^2 - 2x - 8 = 0$$

$$(x+2)(x-4)=0$$

11)
$$x^3 - x^2 - 4x + 4 = 0$$

 $(x-1)(x-2)(x+2) = 0$

12)
$$x^3 - 2x^2 + 4x - 8 = 0$$

 $(x-2)(x^2+4) = 0$

13)
$$x^4 - 7x^2 - 8 = 0$$

 $(x^2 + 1)(x^2 - 8) = 0$

14)
$$x^4 - 4 = 0$$

 $(x^2 + 2)(x^2 - 2) = 0$

15)
$$x^4 + 125x = 0$$

 $x(x+5)(x^2 - 5x + 25) = 0$

16)
$$x^4 - 64x = 0$$

 $x(x-4)(x^2 + 4x + 16) = 0$

17)
$$-8x^4 + 125x = 0$$

 $x(2x-5)(-4x^2 - 10x - 25) = 0$

18)
$$64x^4 + 125x = 0$$

 $x(4x+5)(16x^2 - 20x + 25) = 0$

1)
$$5p^2$$

$$2) -3$$

3)
$$-8 + 6v^2$$

4)
$$-7n^7 + 10n^2 + 7n^6$$

5)
$$(8b+5)(b-1)$$

6)
$$(8n-1)(3n-3)$$

7)
$$(-5x^2 - 6x + 4)(-8x^2 + 6x + 6)$$

8)
$$(-6x + 3y)(-6x - 3y)$$

9)
$$x^2 - 6x + 5 = 0$$

10)
$$x^3 - 16x = 0$$

11)
$$x^3 + x^2 - 4x - 4 = 0$$

12)
$$x^3 - 2x^2 + x - 2 = 0$$

13)
$$x^4 + 4x^2 - 5 = 0$$

14)
$$x^4 + 4x^2 - 12 = 0$$

15)
$$x^4 - 27x = 0$$

16)
$$x^4 - 8x = 0$$

17)
$$27x^4 + 64x = 0$$

18)
$$125x^4 + 27x = 0$$

1)
$$5p^2$$

quadratic monomial

$$2) -3$$

constant monomial

3)
$$-8 + 6v^2$$

quadratic binomial

4)
$$-7n^7 + 10n^2 + 7n^6$$

seventh degree trinomial

Find each product.

5)
$$(8b+5)(b-1)$$

$$8b^2 - 3b - 5$$

6)
$$(8n-1)(3n-3)$$

$$24n^2 - 27n + 3$$

7)
$$(-5x^2 - 6x + 4)(-8x^2 + 6x + 6)$$

$$40x^4 + 18x^3 - 98x^2 - 12x + 24$$

8)
$$(-6x + 3y)(-6x - 3y)$$

$$36x^2 - 9y^2$$

9)
$$x^2 - 6x + 5 = 0$$

$$(x-5)(x-1)=0$$

10)
$$x^3 - 16x = 0$$

$$x(x-4)(x+4)=0$$

11)
$$x^3 + x^2 - 4x - 4 = 0$$

 $(x+1)(x-2)(x+2) = 0$

12)
$$x^3 - 2x^2 + x - 2 = 0$$

 $(x - 2)(x^2 + 1) = 0$

13)
$$x^4 + 4x^2 - 5 = 0$$

 $(x^2 + 5)(x - 1)(x + 1) = 0$

14)
$$x^4 + 4x^2 - 12 = 0$$

 $(x^2 + 6)(x^2 - 2) = 0$

15)
$$x^4 - 27x = 0$$

 $x(x-3)(x^2 + 3x + 9) = 0$

16)
$$x^4 - 8x = 0$$

 $x(x-2)(x^2 + 2x + 4) = 0$

17)
$$27x^4 + 64x = 0$$

 $x(3x+4)(9x^2 - 12x + 16) = 0$

18)
$$125x^4 + 27x = 0$$

 $x(5x+3)(25x^2 - 15x + 9) = 0$

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1)
$$5v^{7}$$

2)
$$-m^4$$

3)
$$8b^3 + 4b^2 + 7b^6 - 10b^5 + 4 - 6b$$

Find each product.

5)
$$(8n+3)(n-7)$$

6)
$$(8a+4)(5a+7)$$

7)
$$(-6v^2 - v + 2)(4v^2 + 7v + 5)$$

8)
$$(-y^2 - 4x)(-y^2 + 4x)$$

9)
$$x^2 + 6x + 8 = 0$$

10)
$$x^2 - x - 12 = 0$$

11)
$$x^3 + 3x^2 + 5x + 15 = 0$$

12)
$$x^3 - x^2 - 2x + 2 = 0$$

13)
$$x^4 + 7x^2 + 6 = 0$$

14)
$$x^4 - 3x^2 - 10 = 0$$

15)
$$x^4 + 8x = 0$$

16)
$$x^4 + 125x = 0$$

17)
$$8x^4 - 27x = 0$$

18)
$$125x^4 - 64x = 0$$

1)
$$5v^{7}$$

seventh degree monomial

2)
$$-m^4$$

quartic monomial

3)
$$8b^3 + 4b^2 + 7b^6 - 10b^5 + 4 - 6b$$

sixth degree polynomial with six terms

4)
$$-7$$

constant monomial

Find each product.

5)
$$(8n+3)(n-7)$$

$$8n^2 - 53n - 21$$

6)
$$(8a+4)(5a+7)$$

$$40a^2 + 76a + 28$$

7)
$$(-6v^2 - v + 2)(4v^2 + 7v + 5)$$

-24 v^4 - 46 v^3 - 29 v^2 + 9 v + 10

8)
$$(-y^2 - 4x)(-y^2 + 4x)$$

 $y^4 - 16x^2$

9)
$$x^2 + 6x + 8 = 0$$

$$(x+4)(x+2)=0$$

10)
$$x^2 - x - 12 = 0$$

$$(x+3)(x-4)=0$$

11)
$$x^3 + 3x^2 + 5x + 15 = 0$$

 $(x+3)(x^2+5) = 0$

12)
$$x^3 - x^2 - 2x + 2 = 0$$

 $(x-1)(x^2-2) = 0$

13)
$$x^4 + 7x^2 + 6 = 0$$

 $(x^2 + 6)(x^2 + 1) = 0$

14)
$$x^4 - 3x^2 - 10 = 0$$

 $(x^2 + 2)(x^2 - 5) = 0$

15)
$$x^4 + 8x = 0$$

 $x(x+2)(x^2 - 2x + 4) = 0$

16)
$$x^4 + 125x = 0$$

 $x(x+5)(x^2 - 5x + 25) = 0$

17)
$$8x^4 - 27x = 0$$

 $x(2x-3)(4x^2 + 6x + 9) = 0$

18)
$$125x^4 - 64x = 0$$

 $x(5x - 4)(25x^2 + 20x + 16) = 0$