Productos notables

$$I - (x+3)(x+4) = (x)^{2}(3+4)x + (3)(4)$$

$$= x^{2} + 7x + 12$$

$$2 - (x-5)(x+10) = (x)^{2} + (-5+10)x + (-5)(10)$$

$$= x^{2} + 5x - 50$$

$$3.-(3x-5)(2x+1) = 6x^2+3x-10x-5$$
$$= 6x^2-7x-5$$

$$4.-(7 \times -2)(4 \times -3) = 28 \times^2 - 21 \times -8 \times +6$$

 $28 \times^2 - 29 \times +6$

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

$$= x^4+x^2+1$$

$$6.-(x^{2}+3x^{-2})(x^{2}-3x^{-2}) = x^{4}-3x^{3}-2x^{2}+3x^{3}-9x^{2}-6x-2x^{2}+6x+4$$

$$=x^{4}-13x^{2}+4-12x+4$$

$$7.-(x+w)(x-10)=(x)^2-(10)^2=x^2-100$$

$$\theta \cdot (2x+3)(2x-3) = 4x^2 - 6x + 6x - 9$$

= $4x^2 - 9$

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$$9.-(x+zy)(x-zy) = x^2-(z)^2$$

= x^2-4y^2

$$10.-(2x+3y)(2x-3y) = (2x)^2 - (3y)^2$$
$$= 4x^2 - 9y^2$$

$$11. - (2x+3)^{2} = (2x)^{2} + 2(2x)(3) + (3)^{2}$$
$$= 4x^{2} + 12x + 9$$

$$|2-(4x+s)^{2} = (4x)^{2} + 2(4x)(5) + (5)^{2}$$

$$= 16x^{2} + 40x + 25$$

$$|3.-(2x-Sy)^{2}=(2x)^{2}-2(2x)(5y)+(5y)^{2}$$

$$=(4x^{2}-20xy+25y)$$

$$|4.-(5-8x)^{2}=(5)^{2}-2(5)(8x)+(8x)^{2}$$

$$=25-80x+64x^{2}$$

$$15.-(x+1)^{3} = (x)^{3} + 3(x^{2})(x) + 3(x)(x^{2}) + x^{3}$$
$$= x^{3} + 3x^{2} + 3x + 1$$

$$|6.-(x-z)|^{3} = (x)^{3} + 3(x^{2})(-2) + 3(x)(-2)^{2} + (-2)^{3}$$

$$= x^{3} - 6x^{2} + 12x - 8$$

$$\begin{aligned} 17. - (2x - y)^3 &= (2x)^3 + 3(2x^2)(-y) + 3(2x)(-y^2) + (-y)^3 \\ &= 8x^3 - 12x^2y + 6xy^2 - y^3 \end{aligned}$$

$$18 - (3x + 2y)^{3} = (3x)^{3} + 3(3x)(2y) + 3(3x)(2y^{2}) + (2y)^{3}$$

$$= 27x^{3} + 54x^{2}y + 36xy^{2} + 8y^{3}$$

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

$$= 16x^6 - 24x^3 + 9$$

$$20 - (8x + 3)^{2} = (8x)^{2} + 2(8x)(3) + (3)^{2}$$
$$= 64x^{2} + 48x + 4$$

$$21.-\left[\binom{m-3}{+1}\right]\left[\binom{m-3}{-1}\right] = m^2 - 3m - m^2 - 3m + 9 + 3c + 7m + 3c - n^2$$

$$= m^2 - 6m + 4 - n^2$$

$$22.-[(x+y)+1][(x+y)-1] = x^{2} + xy - x + yx + y^{2} - x + xy - x$$

$$= x^{2} + 2xy + y^{2} - 1$$

23.
$$-((x-3)+y)^2 = (x^2-3+y)^2 + (x-3+y)(x-3+y)$$

 $= (x^2-3x+xy-3x+9-3y+yx-3y+y^2)$
 $= (x^2-6x+2xy+9-6y+y^2)$

$$\begin{aligned} 24.-[(x+1)-y]^{2} &= (x+1-y)^{2} = (x+2-y)(x+2-y) \\ &= x^{2}+x-xy+x+2-y-yx-y+y^{2} \\ &= x^{2}+7x-2xy+1-2y+y^{2} \end{aligned}$$

$$2S.-(2r^2-S)(2r^2+S) = (2r^2)^2 - (5)^2$$
$$= 4r^4 - 2S$$

$$26.-(3a^3-46^2)(3a^3+46^2)=(3a^3)^2-(46^2)=9a^5-166^4$$

$$27.-(1.2 \times +3)^{2} = (12 \times)^{2} + 2(1.2 \times)(3) + (3)^{2}$$

$$= \frac{36}{25} \times^{2} + 7.2 \times + 9$$

$$28 - (1.5y - 3)^{2} = (1.5y)^{2} + 2(1.5y)(3) + (3)^{2}$$

$$= \frac{9}{9}y^{2} - 9y + 9$$

$$29.-(1.5x-4)(1.5x+4) = (1.5x)^{2} - (4)^{2}$$

$$= \frac{9}{4}x^{2} - 16$$

$$30-(2.5y+3)(2.5y-3)=(2.5y)^2-(3)^2$$

= $\frac{25}{4}y^2-9$

$$31.- S_{\times}(x+1) - 3_{\times}(x+1) = S_{\times} - 3_{\times}(x+1)$$

$$= Z_{\times}(x+1)$$

Factorización

$$\frac{6y^2}{2y} = 3y; \frac{4y}{2y} = 2$$

$$R = 2y(3y-2)$$

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$$Z_{1-3}x^{2}y-qx^{3}x^{3}$$

$$MCD=3$$
Factor coron=3x^{3}y

$$\frac{3x^{2}y}{3x^{3}y} = \frac{1}{1} + \frac{-9x^{3}y^{3}}{3x^{2}y} = 3x^{2}y^{2}$$

$$R = 3x^{3}y \left(1 - 3x^{3}y^{2}\right)$$

$$\frac{633^{3}}{63^{2}v^{2}} = uv^{2}i \frac{180^{2}v^{4}}{63^{2}v} = 3 \text{ W}^{4}$$

1000年期月月日至15月十九日

$$\frac{-12333}{6327} = -23^{2}$$

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

$$5 - 5^2 - 65 + 8 = (5 - 4) (5 + 2)$$

6.
$$x^{2} + 2x - 24 = (x+6)(x+4)$$

7. $y^{2} - 9x^{2} = (2+3x)(2+3x)$
 $y^{2} - 15y + 50 = (y+5)(y+10)$
8. $y^{2} - 15y + 50 = (y+5)(y+10)$
9. $y^{2} + 12y + 10 = (y+5)(y+10)$
10. $y^{2} - 18y + 8 = y(y^{2} - 18y + 8) = y(y^{2} - 18y + 8)$
10. $y^{2} - 18y + 8 = y(y^{2} - 18y + 8) = y(y^{2} - 18y + 8)$
10. $y^{2} - 18y + 8 = y(y^{2} - 18y + 8) = y(y^{2} - 18y + 8)$
11. $y^{2} - 18y + 12 = y(y - 6)(x + 12) = y(y - 12) = y(y - 12)$
11. $y^{2} - y^{2} - 12 = y(x + 3)(y + 3) = y(x + 3)(y + 4)$
11. $y^{2} - y^{2} - 12 = y(x + 3)(y + 4) = y(x + 3)(y + 4)$

$$\begin{aligned}
&(2.-9z^{2}+30z+25) = 9(9z^{2}+30z+25) = 81z^{2}+30z+255 \\
&81z^{2}+30z+225 = (9z+15)(9z+15) = (z+5!)(z+5!) \\
&(3.-x^{2}y^{2}-4xy+4 = (xy-2)^{2}) \\
&(x^{2}y^{2}=xy) \quad [4=z] \\
&(x$$

15.
$$(8x^{2}+7x) + (10x+4) = (8x+2)(x+2)$$

 $*(8x+2) + 2(5x+2)$
 $18-(x^{2}-1) + (x^{2}-x-2)$
 $(x+1)(x-1)+(x+1)(x-2)$
 $(x+1)(x-1+x-2)$
 $(x+1)(2x-3)$
 $17. - x^{3} + -4x + z^{2} + 4z^{2}$
 $(x^{3} + -4x + z^{2}) + (x^{2} + 4x +$

$$\frac{20 - (a+s)^{3} (a+t)^{2} + (a+s)^{2} (a+t)^{3}}{(a+t)^{2} (a+t)^{2} (a+t)^{2} (a+t)^{2} (a+t)^{2} (a+t)^{2} (a+t)^{2}}$$

$$(a+s)^{2} (a+t)^{2} (a+t)^{2} (a+t)^{2} (a+t)^{2}$$

$$= 2 (a+s)^{2} (a+t)^{2} (a+t)^{2} (a+t)^{3}$$

$$21...81 \times 1 - y^{4} = (9 \times ^{2} + y^{2}) (9 \times ^{2} - y^{2})$$

$$281 \times 1 = 9 \times ^{2} \sqrt{y^{4}} = y^{2}$$

$$22 - 4^{14} - 4 = (+^{2} + z) (+^{2} - z)$$

$$4^{14} = +^{2} \sqrt{4} = 2$$

$$23 - \times ^{4} - 10 \times ^{2} + 9 = (\times^{2} - 1) (\times^{2} - 9)$$

$$4^{14} = \times^{2} \sqrt{9} = 3$$

$$4^{14} = (\times^{2} - 1) (\times^{2} - 9)$$

$$4^{14} = (\times^{2} - 1) (\times^{2} - 9)$$