Problemario

Nombre del Alumno: Galilea Monserrat Gómez Gómez

Nombre del tema: Problemario

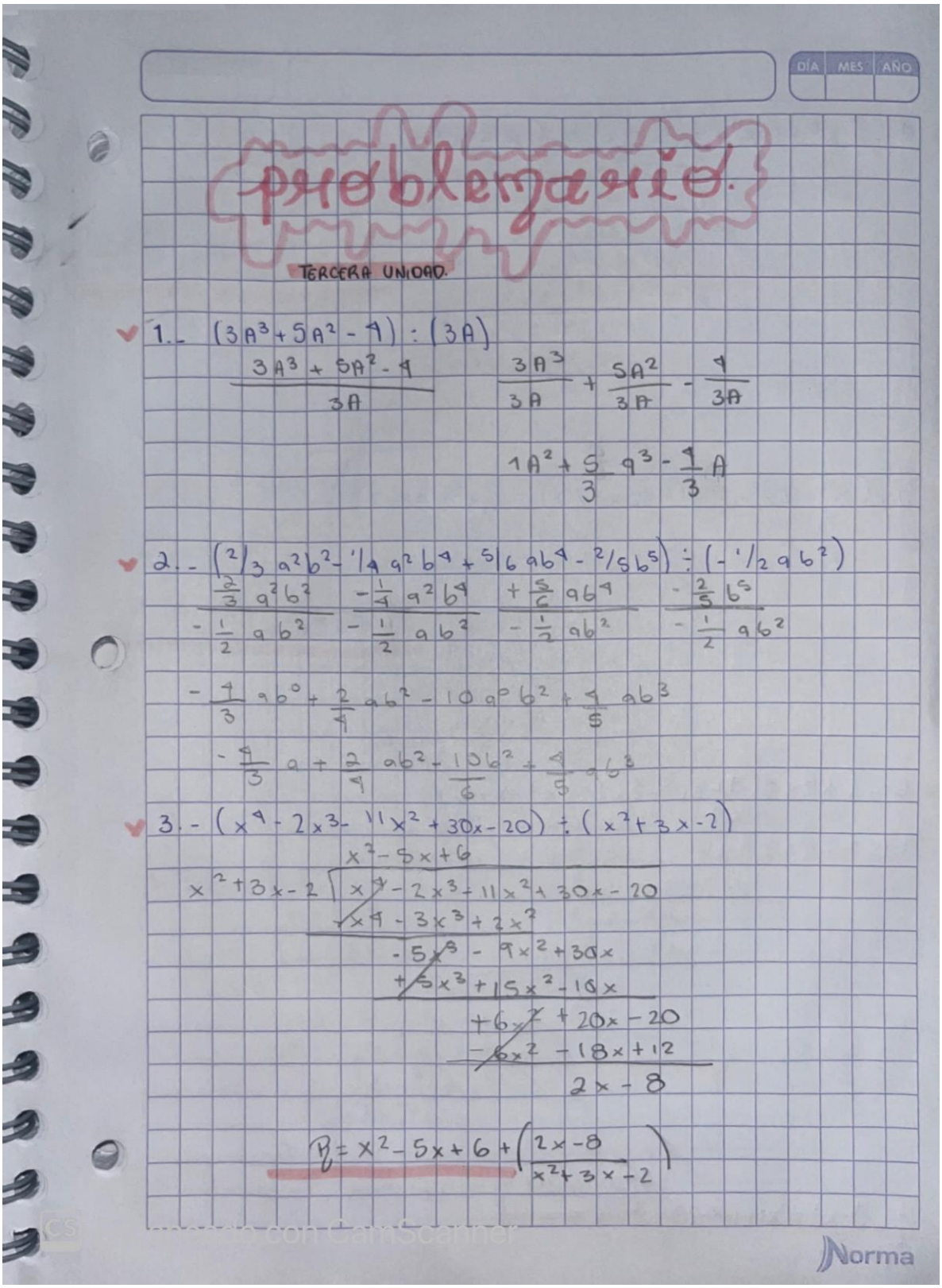
Parcial: 3 unidad

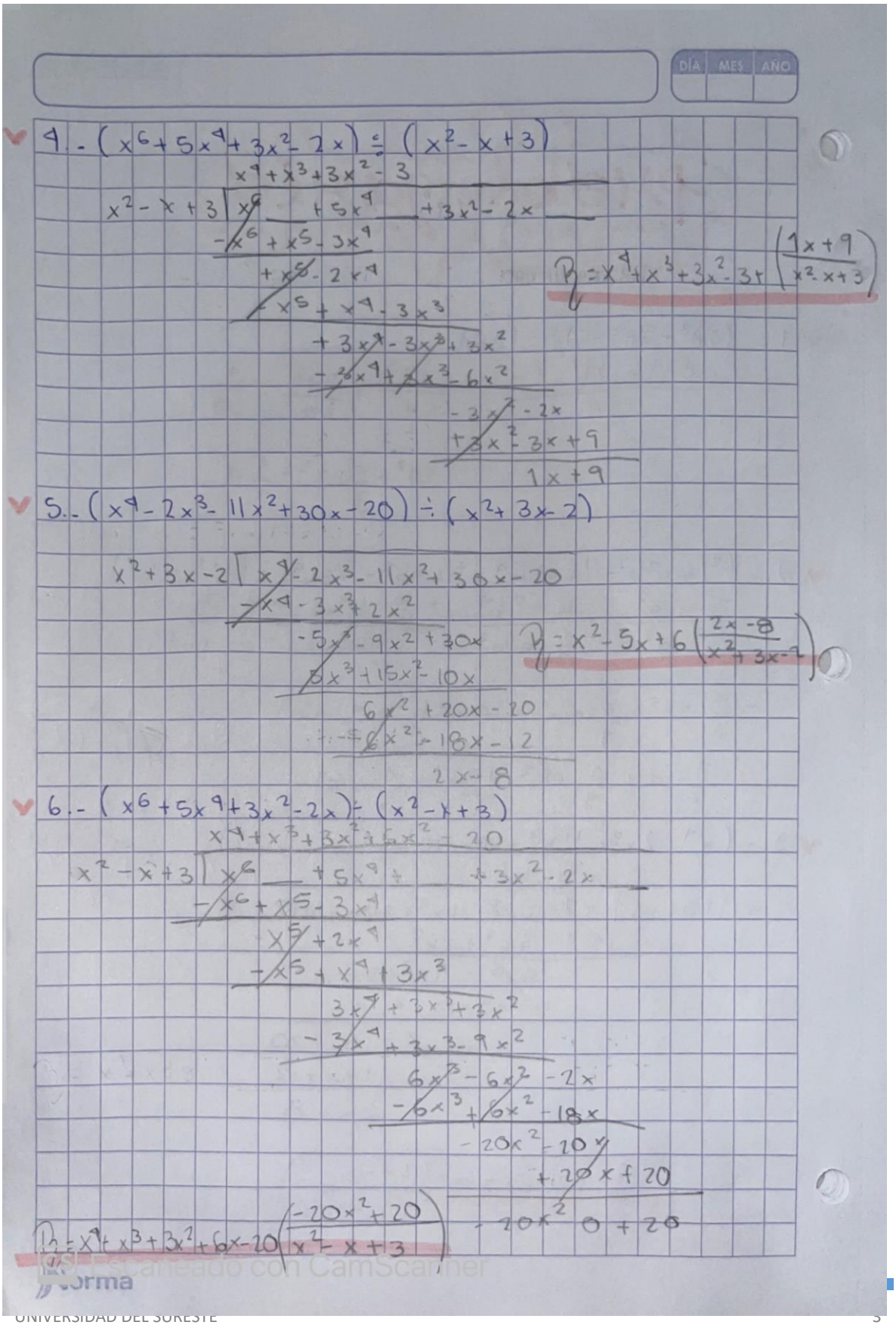
Nombre de la Materia: Algebra

Nombre del profesor: Juan José Ojeda

Nombre de la Licenciatura: Bachillerato en Recursos Humanos

Cuatrimestre: 1ero


problemario
TERCERA UNIDAD
1.- $(3A^3+5A^2-4):(3A)$
$\frac{3A^3+5A^2-4}{3A}$
$\frac{3A^3}{3A}+\frac{5A^2}{3A}-\frac{4}{3A}$
$1A^2+\frac{5}{3}a^3-\frac{1}{3}A$
2.- $(\frac{2}{3}a^2b^2-\frac{1}{4}a^2b^4+\frac{5}{6}ab^4-\frac{2}{5}b^5)\div(-\frac{1}{2}ab^2)$
$\frac{\frac{2}{3}a^2b^2}{-\frac{1}{2}ab^2}\quad\frac{-\frac{1}{4}a^2b^4}{-\frac{1}{2}ab^2}\quad\frac{+\frac{5}{6}ab^4}{-\frac{1}{2}ab^2}\quad\frac{-\frac{2}{5}b^5}{-\frac{1}{2}ab^2}$
$-\frac{4}{3}ab^0+\frac{2}{4}ab^2-10a^0b^2+\frac{4}{5}ab^3$
$-\frac{4}{3}a+\frac{2}{4}ab^2-10b^2+\frac{4}{5}ab^3$
3.- $(x^4-2x^3-11x^2+30x-20)\div(x^2+3x-2)$
x^2-5x+6
$x^2+3x-2\;\overline{)\;x^4-2x^3+11x^2+30x-20}$
$-x^4-3x^3+2x^2$
$-5x^3-9x^2+30x$
$+5x^3+15x^2-10x$
$+6x^2+20x-20$
$-6x^2-18x+12$
$2x-8$
$R=x^2-5x+6+\left(\frac{2x-8}{x^2+3x-2}\right)$
Norma



DÍA MES AÑO

4.- $(x^6+5x^4+3x^2-2x) \div (x^2-x+3)$

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

$x^2-x+3 \;|\; x^6+5x^4+3x^2-2x$

$-x^6+x^5-3x^4$

$+x^5-2x^4$

$-x^5+x^4-3x^3$

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

$-3x^4+3x^3-6x^2$

$-3x^2-2x$

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

$1x+9$

$R = x^4+x^3+3x^2-3+\left(\frac{1x+9}{x^2-x+3}\right)$

5.- $(x^4-2x^3-11x^2+30x-20) \div (x^2+3x-2)$

$x^2+3x-2 \;|\; x^4-2x^3-11x^2+30x-20$

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

$-5x^3-9x^2+30x$

$5x^3+15x^2-10x$

$6x^2+20x-20$

$-6x^2-18x+12$

$2x-8$

$R = x^2-5x+6\left(\frac{2x-8}{x^2+3x-2}\right)$

6.- $(x^6+5x^4+3x^2-2x) \div (x^2-x+3)$

$x^4+x^3+3x^2+6x-20$

$x^2-x+3 \;|\; x^6+5x^4+3x^2-2x$

$-x^6+x^5-3x^4$

x^5+2x^4

$-x^5+x^4+3x^3$

$3x^4+3x^3+3x^2$

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

$6x^3-6x^2-2x$

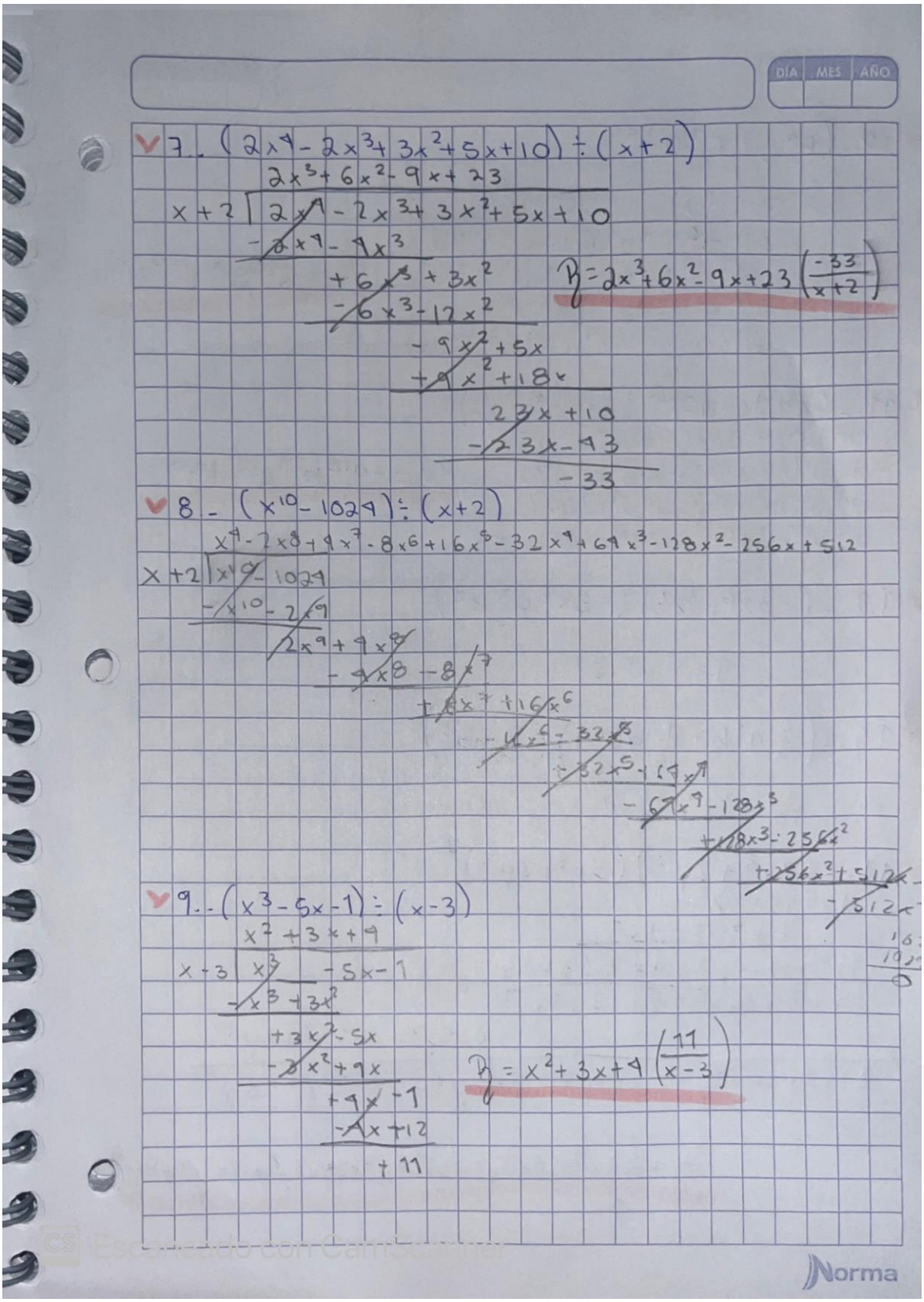
$-6x^3+6x^2-18x$

$-20x^2-20x$

$+20x+20$

$-20x^2+0+20$

$R = x^4+x^3+3x^2+6x-20\left(\frac{-20x^2+20}{x^2-x+3}\right)$


DÍA MES AÑO
7. $(2x^4 - 2x^3 + 3x^2 + 5x + 10) \div (x+2)$
$2x^3 + 6x^2 - 9x + 23$
$R = 2x^3 + 6x^2 - 9x + 23\left(\frac{-33}{x+2}\right)$
8. $(x^{10} - 1024) \div (x+2)$
$x^9 - 2x^8 + 4x^7 - 8x^6 + 16x^5 - 32x^4 + 64x^3 - 128x^2 - 256x + 512$
9. $(x^3 - 5x - 1) \div (x-3)$
$x^2 + 3x + 9$
$R = x^2 + 3x + 9\left(\frac{11}{x-3}\right)$
Norma

DÍA MES AÑO

10.- $(R^1 S^3 T^2 U)^5$

$(R^1 S^3 T^2 U)(R^1 S^3 T^2 U)$

$R^8 S^6 T^4 U^2 (R^1 S^3 T^2 U)$

$R^{12} S^9 T^6 U^3 (R^1 S^3 T^2 U)$

$R^{16} S^{12} T^8 U^4 (R^1 S^3 T^2 U)$

$R^{20} S^{15} T^{10} U^5 (R^1 S^3 T^2 U)$

$R = R^{20} S^{15} T^{10} U^5$

11.- $(-a^3 b^4 c^2 d^5)^6 (-a^3 b^4 c^2 d^5)$

$a^6 b^8 c^4 d^{10} (-a^3 b^4 c^2 d^5)$

$-a^9 b^{12} c^6 d^{15} (-a^3 b^4 c^2 d^5)$

$a^{12} b^{16} c^8 d^{20} (-a^3 b^4 c^2 d^5)$

$a^{15} b^{20} c^{10} d^{25} (-a^3 b^4 c^2 d^5)$

$R = -a^{18} b^{24} c^{12} d^{30}$

12.- $(-3x^6 y^3 z^2)(-3x^6 y^3 z^2)$

$9x^{12} y^6 z^4$

13.- $\left(\frac{2}{5} a^2 b - \frac{1}{3} ab - 1\right)\left(\frac{3}{2} ab^2\right)$

$\frac{3}{10} a^3 b^3 - \frac{1}{6} a^2 b^3 - \frac{1}{2} ab^2$

14.- $(3x^3 + 2y^2)(3x^3 + 2y^3)^2$

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

$6x^3 y^2 + 4y^4$

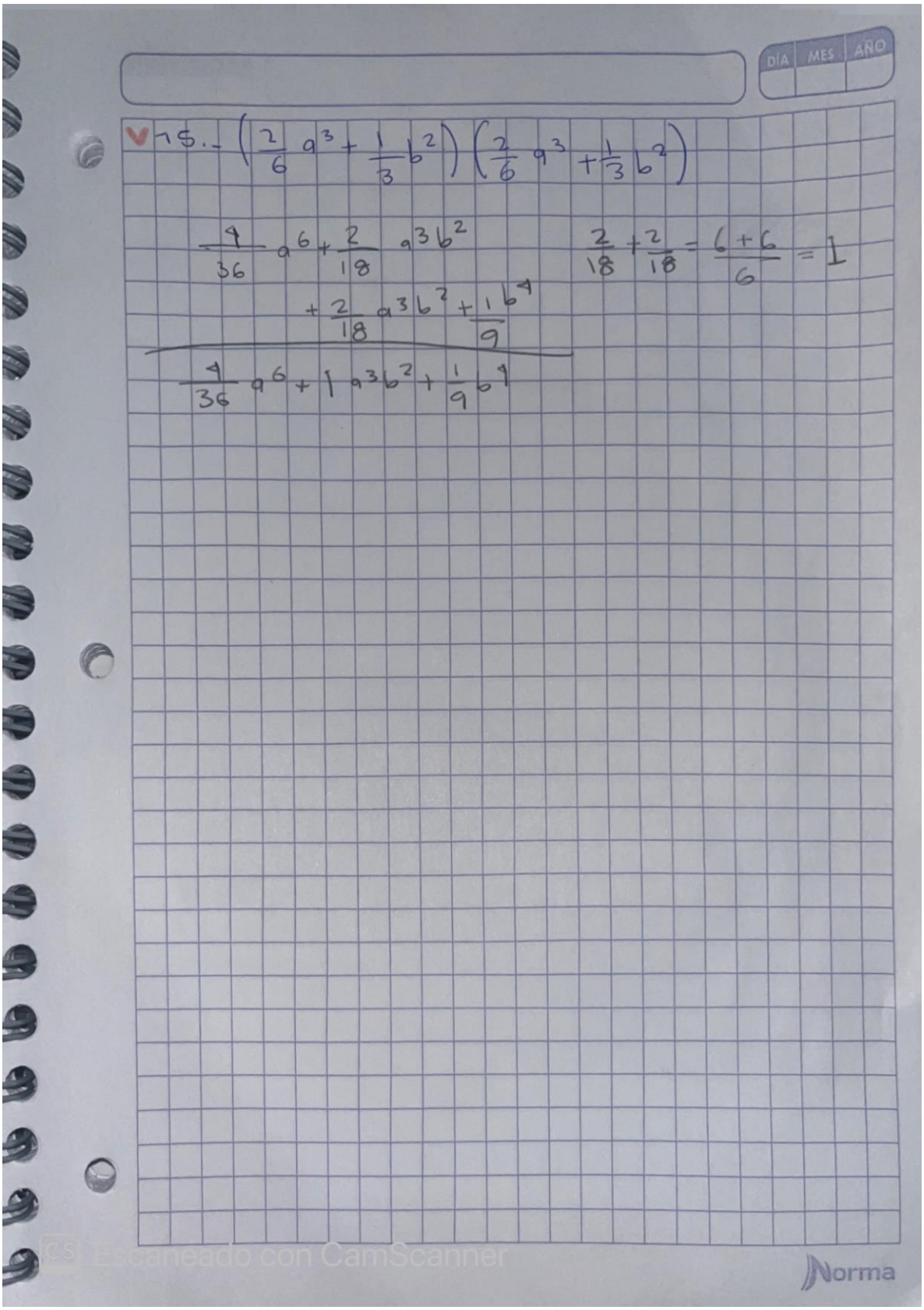
$9x^6 + 12x^6 y^4 + 4y^4 \quad (3x^2 + 2y^3)$

$27x^8 + 36x^5 y^2 + 12x^2 y^4$

$18x^6 y^2 + 24 y^2 + 8y^6$

$27x^8 + 36x^5 y^2 + 12x^2 y^4 \quad 8x^6 y^2 + 24x^3 y^2 + 8y^6$

$R = 27x^8 + 18x^6 y^2 + 36x^5 y^2 + 24x^3 y^2 + 12x^2 y^4 + 8y^6$


DÍA MES AÑO
15.- $\left(\frac{2}{6}a^3+\frac{1}{3}b^2\right)\left(\frac{2}{6}a^3+\frac{1}{3}b^2\right)$
$\frac{4}{36}a^6+\frac{2}{18}a^3b^2$
$+\frac{2}{18}a^3b^2+\frac{1}{9}b^4$
$\frac{4}{36}a^6+\frac{4}{18}a^3b^2+\frac{1}{9}b^4$
$\frac{2}{18}+\frac{2}{18}=\frac{6+6}{6}=1$
Escaneado con CamScanner
Norma