UDS

Mi Universidad

# problemario

*Nombre del Alumno* *Estefany de Lourdes López Jiménez*

*Nombre del tema* *OPERACIONES FUNDAMENTALES*

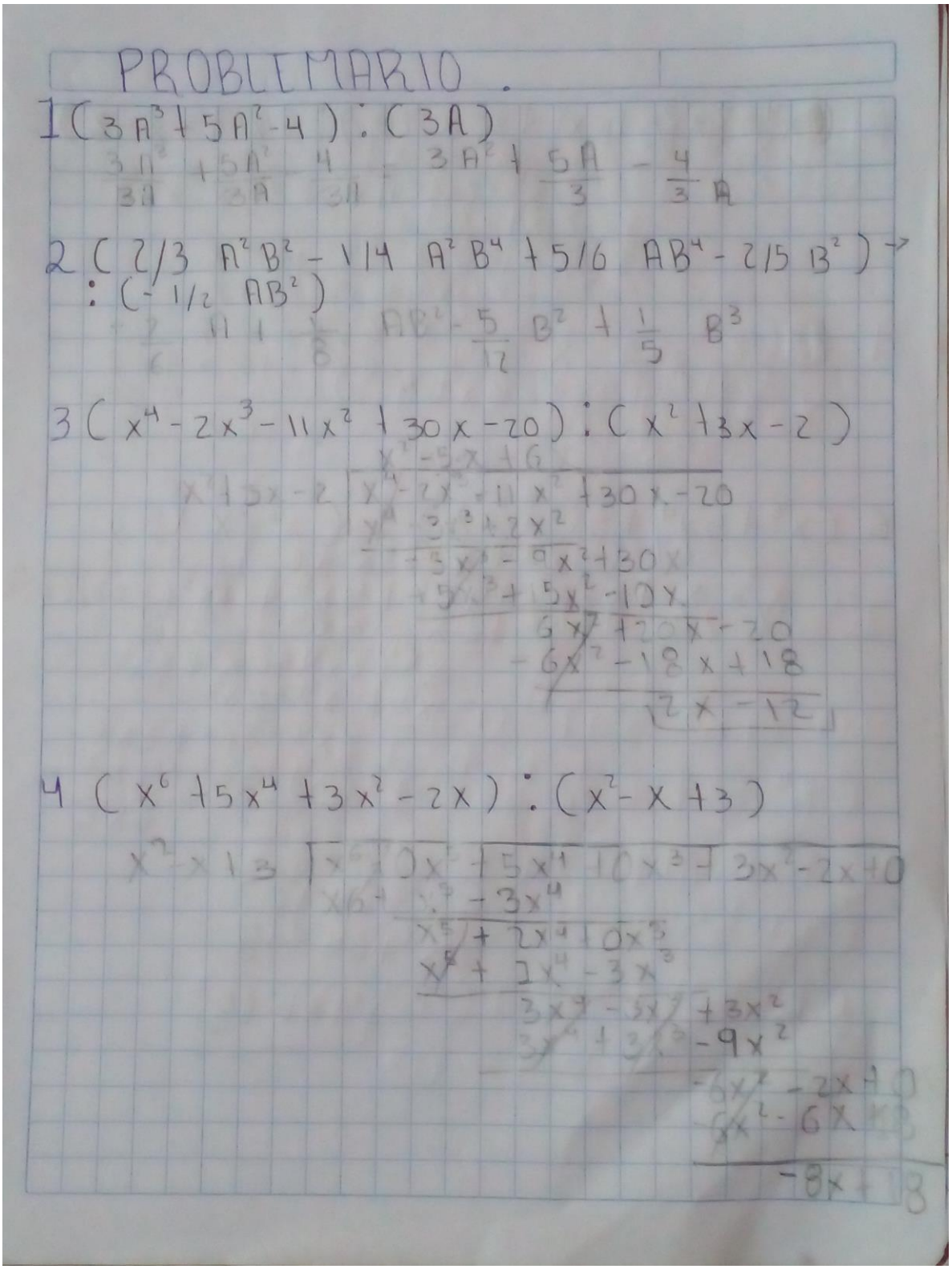
*3er Parcial*

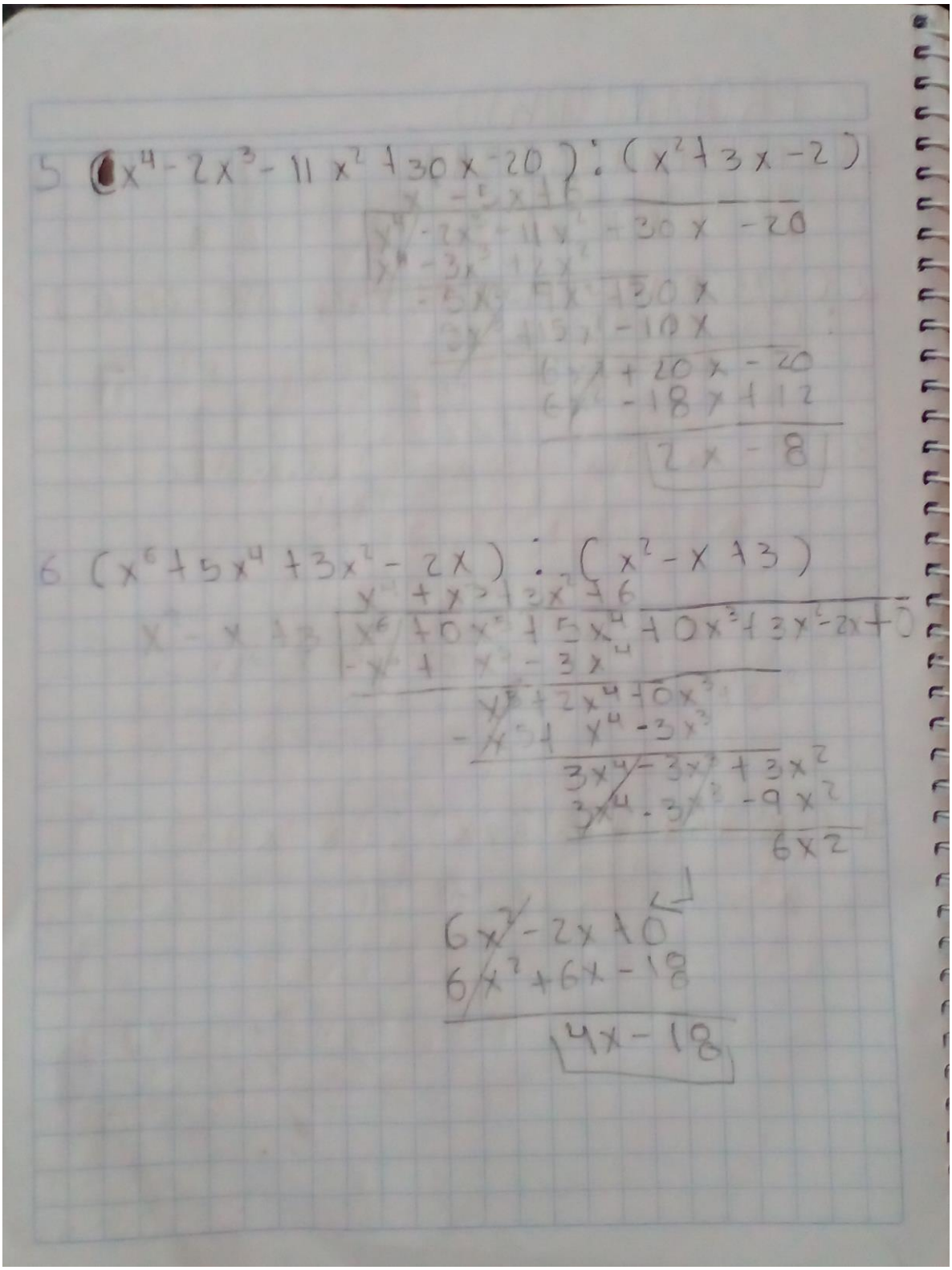
*Nombre de la Materia* *ALGEBRA*

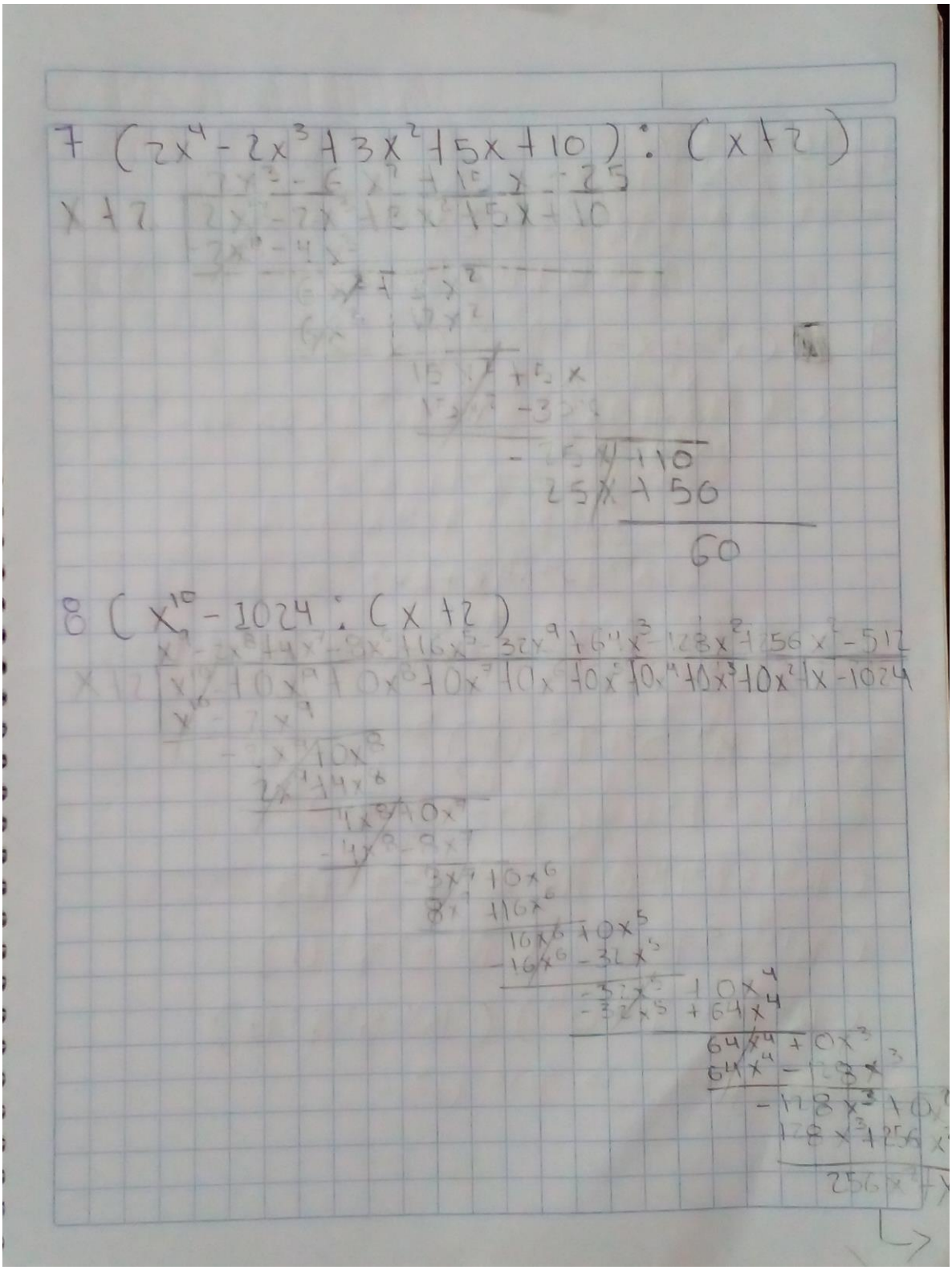
*Nombre del profesor* *Juan José Ojeda Trujillo*

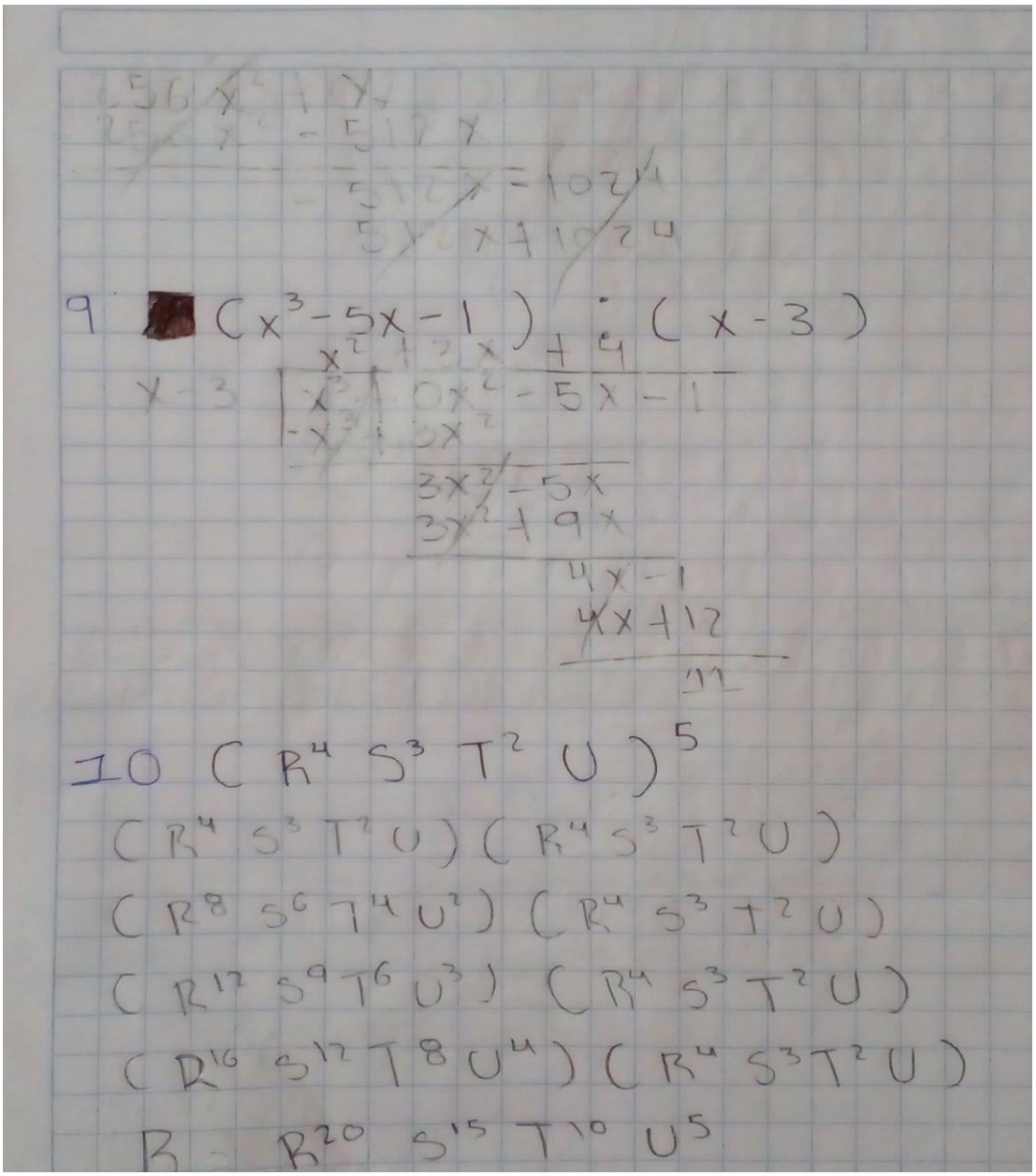
*Nombre de la Licenciatura* *técnico en enfermería*

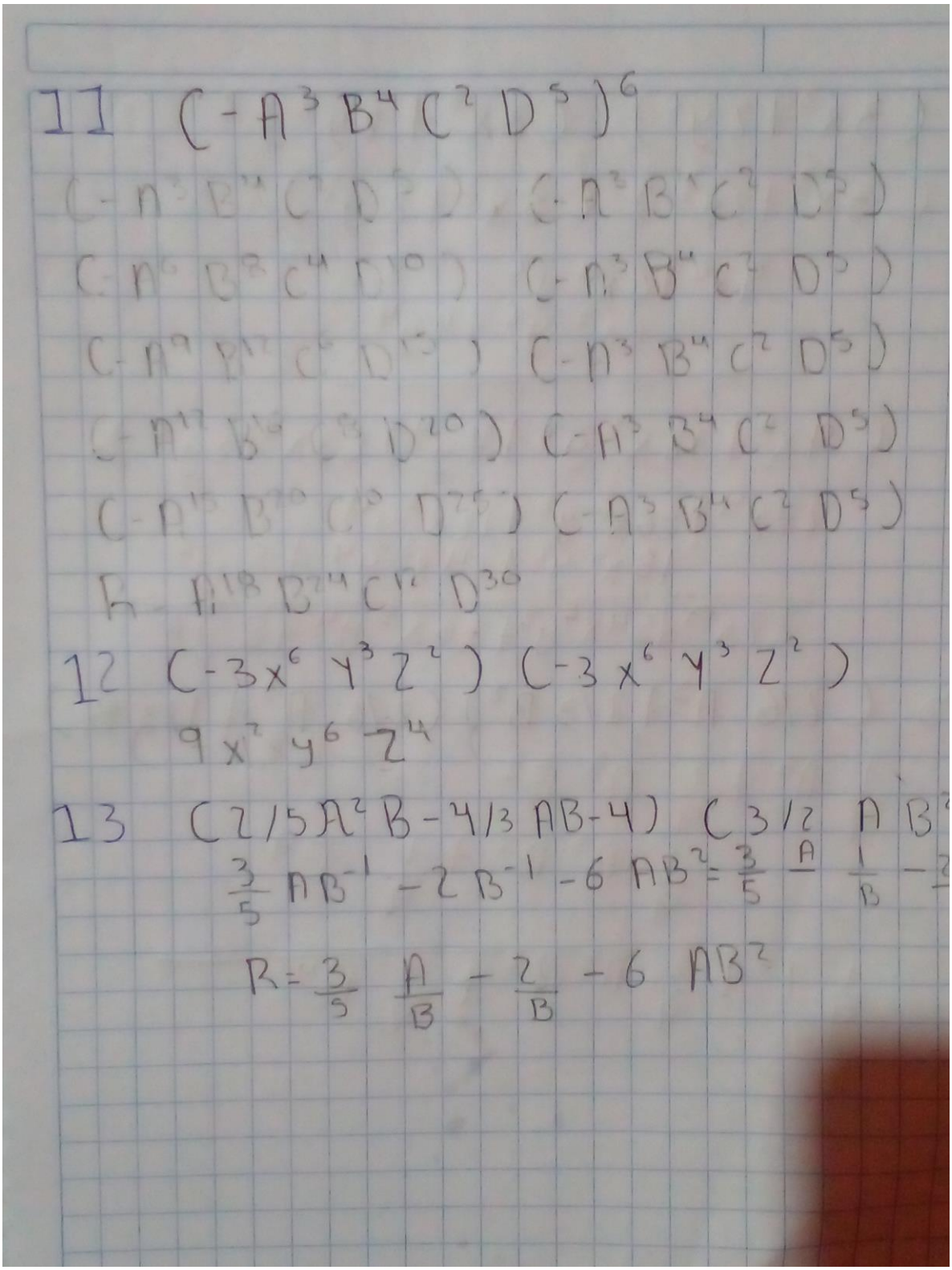
*Primer semestre*

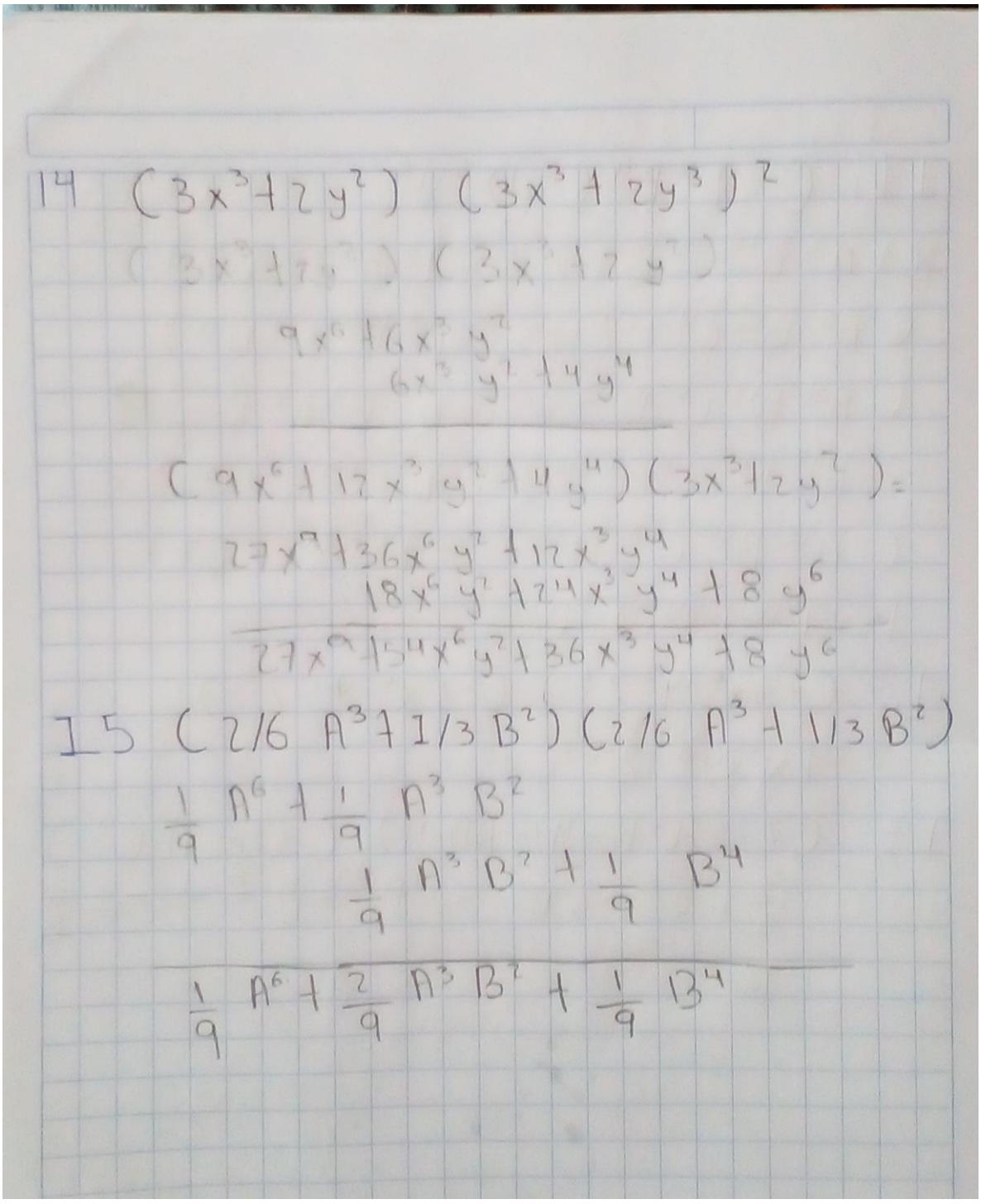

PROBLEMARIO.
1 (3A³ + 5A² - 4) : (3A)
3A² + 5A/3 - 4/3A
2 (2/3 A²B² - 1/4 A²B⁴ + 5/6 AB⁴ - 2/5 B²) : (-1/2 AB²)
-4/3 AB² - 5/12 B² + 1/5 B³
3 (x⁴ - 2x³ - 11x² + 30x - 20) : (x² + 3x - 2)
x² - 5x + 6
x² + 3x - 2 | x⁴ - 2x³ - 11x² + 30x - 20
- 5x³ - 9x² + 30x
- 6x² - 18x + 18
12x - 12
4 (x⁶ + 5x⁴ + 3x² - 2x) : (x² - x + 3)
x² - x + 3 | x⁶ + 0x⁵ + 5x⁴ + 0x³ + 3x² - 2x + 0
- 3x⁴
+ 2x⁴ + 0x³
x⁵ + 2x⁴ - 3x³
3x³ - 5x² + 3x
3x³ + 3x² - 9x²
-6x² - 2x + 0
-6x² - 6x
-8x + 18


5 (x⁴ - 2x³ - 11x² + 30x - 20) ÷ (x² + 3x - 2)
2x - 8
6 (x⁶ + 5x⁴ + 3x² - 2x) ÷ (x² - x + 3)
6x² - 2x + 0
6x² + 6x - 18
4x - 18


7 (2x⁴ - 2x³ + 3x² + 5x + 10) : (x + 2)
8 (x¹⁰ - 1024 : (x + 2)


9 (x³ - 5x - 1) ÷ (x - 3)
x² + 2x + 1
x - 3 | x³ + 0x² - 5x - 1
- x³ + 3x²
3x² - 5x
3x² + 9x
4x - 1
4x + 12
11
10 (R⁴ S³ T² U)⁵
(R⁴ S³ T² U)(R⁴ S³ T² U)
(R⁸ S⁶ T⁴ U²)(R⁴ S³ T² U)
(R¹² S⁹ T⁶ U³)(R⁴ S³ T² U)
(R¹⁶ S¹² T⁸ U⁴)(R⁴ S³ T² U)
R = R²⁰ S¹⁵ T¹⁰ U⁵


11 $(-A^3B^4C^2D^5)^6$
$(-A^3B^4C^2D^5)(-A^3B^4C^2D^5)$
$(-A^3B^4C^2D^5)(-A^3B^4C^2D^5)$
$(-A^3B^4C^2D^5)(-A^3B^4C^2D^5)$
$(-A^3B^4C^2D^5)(-A^3B^4C^2D^5)$
$(-A^3B^4C^2D^5)(-A^3B^4C^2D^5)$
$A^{18}B^{24}C^{12}D^{30}$
12 $(-3x^6y^3z^2)(-3x^6y^3z^2)$
$9x^2y^6z^4$
13 $(2/5A^2B - 4/3AB - 4)(3/2$
$\frac{3}{5}AB^{-1} - 2B^{-1} - 6AB^2 = \frac{3}{5}\frac{A}{B} - \frac{1}{B} - 6AB^2$
$R = \frac{3}{5}\frac{A}{B} - \frac{2}{B} - 6AB^2$


14 $(3x^3+2y^2)(3x^3+2y^3)^2$
$(3x^3+2y^2)(3x^3+2y^2)$
$9x^6+6x^3y^2$
$6x^3y^2+4y^4$
$(9x^6+12x^3y^2+4y^4)(3x^3+2y^2)=$
$27x^9+36x^6y^2+12x^3y^4$
$18x^6y^2+24x^3y^4+8y^6$
$27x^9+54x^6y^2+36x^3y^4+8y^6$
15 $(2/6\ A^3+1/3\ B^2)(2/6\ A^3+1/3\ B^2)$
$\frac{1}{9}A^6+\frac{1}{9}A^3B^2$
$\frac{1}{9}A^3B^2+\frac{1}{9}B^4$
$\frac{1}{9}A^6+\frac{2}{9}A^3B^2+\frac{1}{9}B^4$