Arellano Granados Angel Mariano 17/03/27

Tarea 4

1. $\frac{16x^6 - 10x^5}{2x^2} = \boxed{8x^4 - 5x^3}$

2. $(9x^2 + 7 - 4x - 10x^4) \div (-5x^2 - 3)$

$$
\begin{array}{r|l}
 & +2x^2 - 3 \\
\hline
-5x^2 - 3 & -10x^4 + 9x^2 - 4x + 7 \\
(-1) & +10x^4 + 6x^2 \\
\hline
 & 0 + 15x^2 - 4x + 7 \\
 & -15x^2 \quad -9 \\
\hline
 & 0 \quad -4x - 2
\end{array}
$$

$$
\begin{array}{r|l}
2x^2 - 3 & -4x - 2 \\
\hline
 & -5x^2 - 3
\end{array}
$$

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

$+7x^2y^3 + 5x^3y^2 - y^2$

$\boxed{7x^3y^2 + 10x^2y^3 - 5y^2}$

4. $9z^2(10z^3 + 7z)$

$\boxed{90x^5 + 63z^3}$

5. $(8x^3 + 12x^2 + 6x + 2) \div (2x + 1)$

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$$2x+1 \overline{)\,8x^3+12x^2+6x+2}\quad 4x^2+4x+1$$

$$(-)\ -8x^3+4x^2$$

$$0 \quad 8x^2+6x+2$$

$$-8x^2-4x$$

$$0 \quad +2x+2$$

$$-2x-1$$

$$0 \quad 1$$

$$4x^2+4x+1+\frac{1}{2x+1}$$

6. $(2x^2+13x+18) \div (x+5)$

$$x+5 \overline{)\,2x^2+13x+18}\quad 2x+3$$

$$(-)\ -2x^2-10x$$

$$0 \quad +3x+18$$

$$-3x-15$$

$$0 \quad +3$$

$$2x+3+\frac{3}{x+5}$$

7. $-7b^4(3b^3+8b^5c^2-5c^2)$

$$-21b^4c^4-56b^6c^6+35b^4c^6$$

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

$$49v^9+56v^8-21v^7$$

9. $-7v-15-12v^0+10v^7$ $G=7$ $CP=10$

10. $2x^8v^7x^2+6v-v^9x^7+5$

$G=17$