Autoevaluacion intento 1:

$$\left(\begin{array}{cccc}
\underline{q} & \underline{8} & -\left(\begin{array}{c}
\frac{3}{2} & -\frac{7}{2} \\
16 & 1
\end{array}\right) & -\frac{7}{2}$$

$$\begin{pmatrix} \frac{72}{72} & -\begin{pmatrix} \frac{3}{2} \end{pmatrix} \end{pmatrix}^{\frac{-1}{2}}$$

$$\left(\frac{q}{2}+\frac{3}{2}\right)^{-\frac{1}{2}}$$

$$\frac{16}{2} \frac{1}{2} \frac{1}{2} = \frac{1}{\sqrt{6}} = \frac{1}{\sqrt{6}}$$

Determinar el valor de b para el cual el polinomio $T(x)=-x^3+bx^2-1/2x+10$ tiene resto en la división por x+2

$$T(x) = -x^3 + bx^2 - \frac{1}{2}x + 10$$

Como T(x) tiene un resto de -1 al ser dividido por (x+2) entonces T(-2) = -1

$$-(-2)^{3}+b.(-2)^{2}-\frac{1}{2}.(-2)+10=-1$$

$$-(-8)+b.4-(-1)+10=-1$$

$$b.4 = -1-8-1-10$$

$$b.4 = -20$$

$$b = -5$$

3)
$$\int \frac{1-3}{4} \cdot (-2^2)$$

$$\frac{\sqrt{7}}{\sqrt{4}}$$
, -4

$$\frac{1}{2}$$
, -4

4)
$$M(x) = -5x^2 + 2x^3 + 7$$
 divisible for $(x - \frac{1}{2})$?

$$M(a) = R(x)$$
 : s ; $M(a) = 0$, $M(x)$ es divisible por $(x - \frac{1}{2})$

$$M(\frac{1}{2}) = -5 \cdot (\frac{1}{2})^2 + 2 \cdot (\frac{1}{2})^3 + 1$$

= $-5 \cdot \frac{1}{4} + 2 \cdot \frac{1}{8} + 7$

$$= -5+1+(1.4)$$

$$M(x)$$
 es divisible por $\left(x-\frac{1}{2}\right)$

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

 $Q(x) = -x + 4$
 $R(x) = 5x + x^2$

$$\frac{\partial}{\partial 3} \cdot \left(\left(2 \left(x \right) \right)^{2} - P(x) \right) = \left(x + 4 \right)^{2} - \left(3 x^{2} + x - 5 \right) \\
3 \cdot \left(\left(-x \right)^{2} + 16 \right) - \left(3 x^{2} + x - 5 \right) \\
3 \cdot \left(-x \right)^{2} + 3 \cdot 16 - \left(3 x^{2} + x - 5 \right) \\
3 \cdot \left(+x \right)^{2} + 48 - \left(3 x^{2} + x - 5 \right) \\
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3 \cdot \left(+x \right)^{2} + 4 x - 5 \right)$$

$$0.x^2 - x + 53$$

b)
$$(R(\chi))^2 = (3\chi^2 + \chi - 5)^2$$

 $3^2 \cdot \chi^{2 \cdot 2} + \chi^2 + (-5)^2$
 $9 \cdot \chi^4 + \chi^2 + 25$