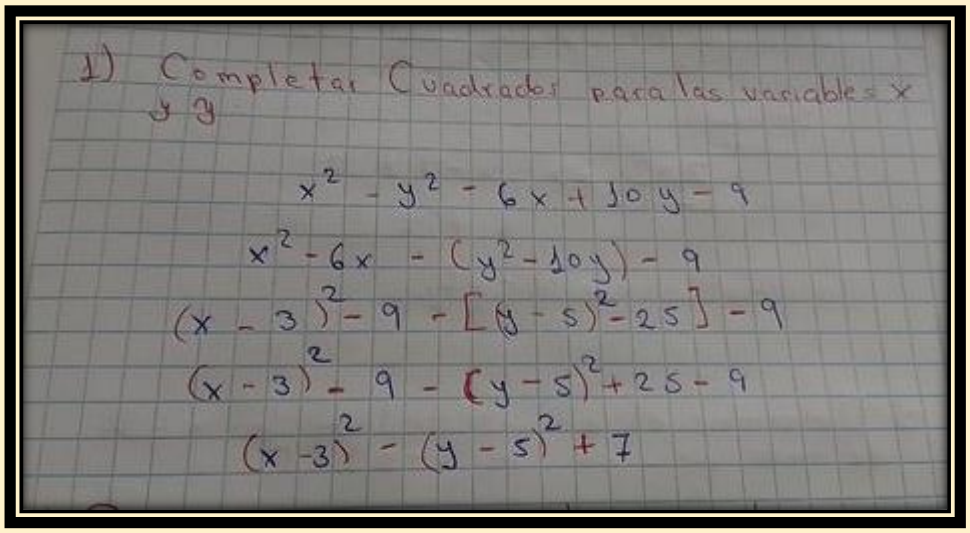
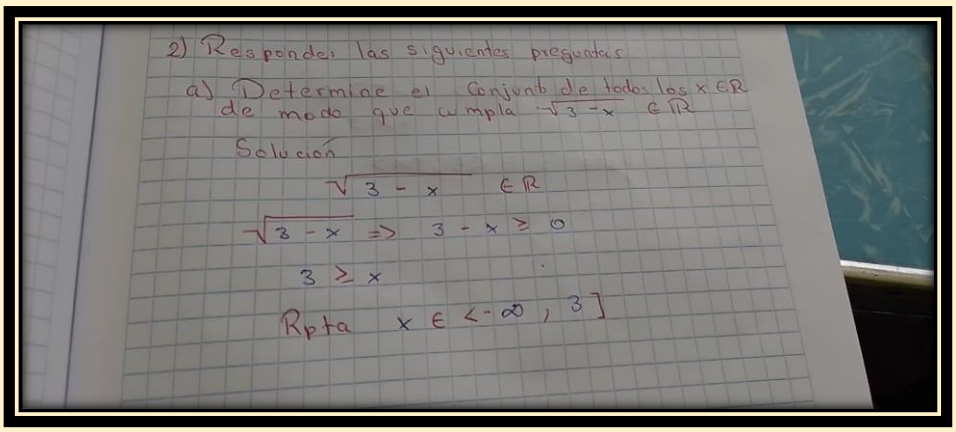
EXAMAN DE ENTRADA

1.-) Completar cuadrados para las variables x y y

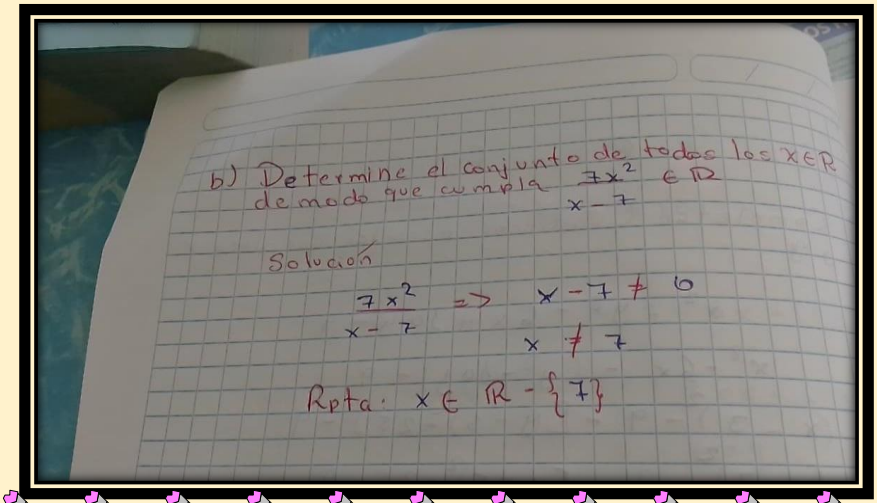


2.-) Responder a las preguntas siguientes

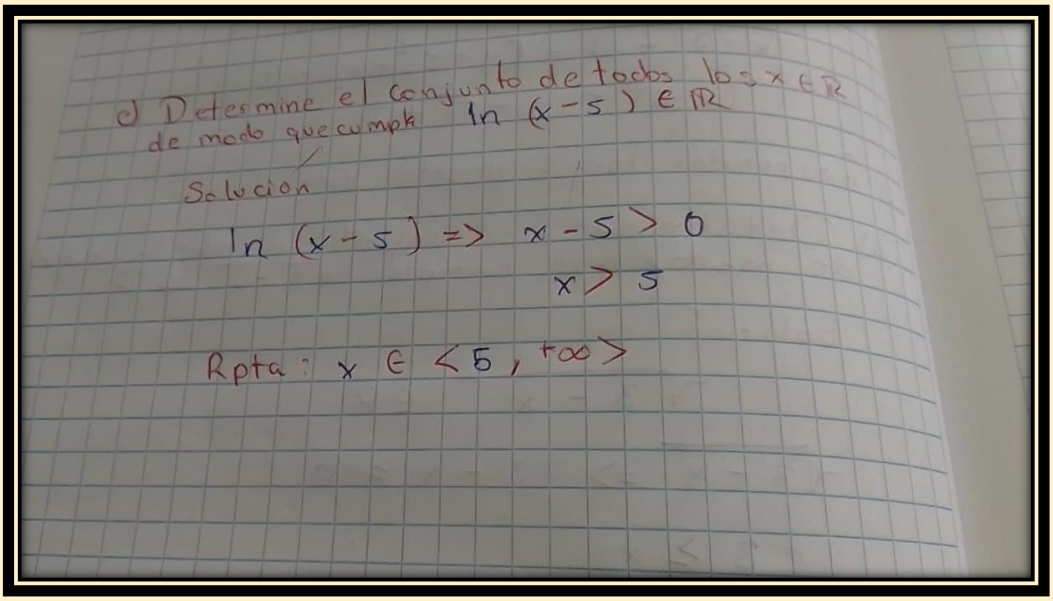
a.-)



b.-)

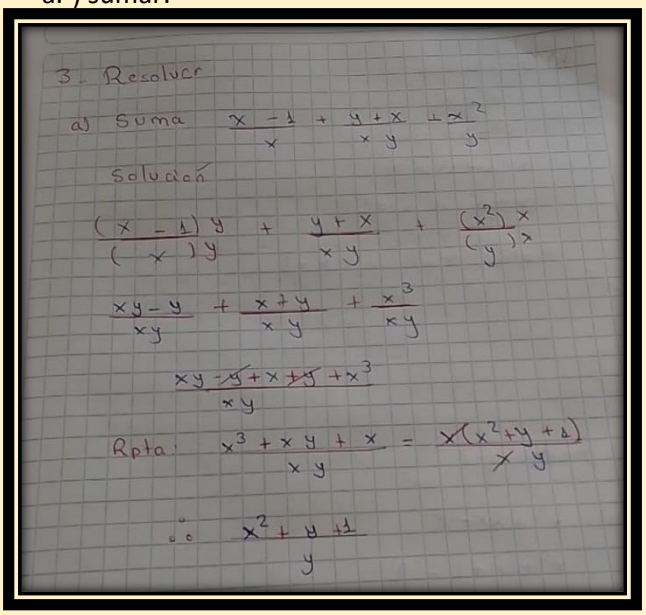


c.-)

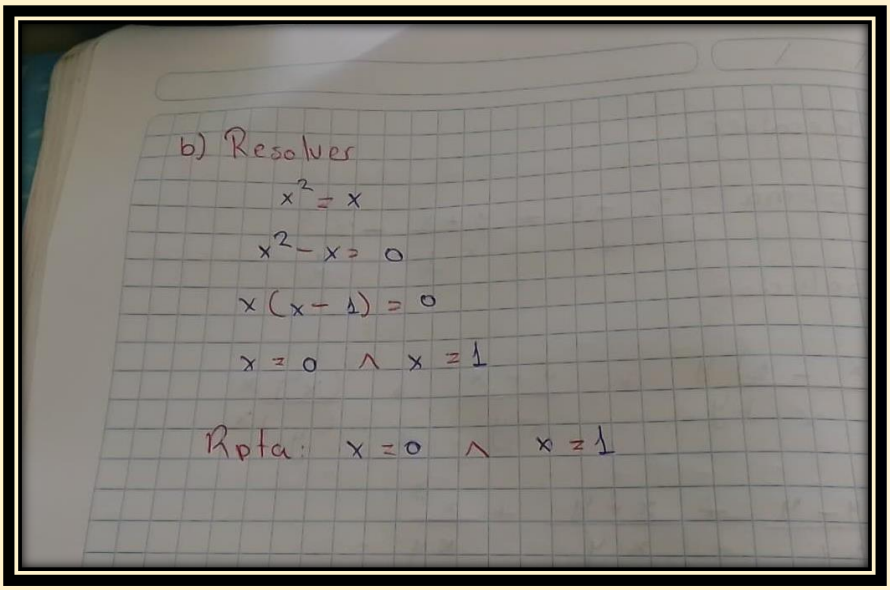


3.-) Resolver

a.-) sumar:

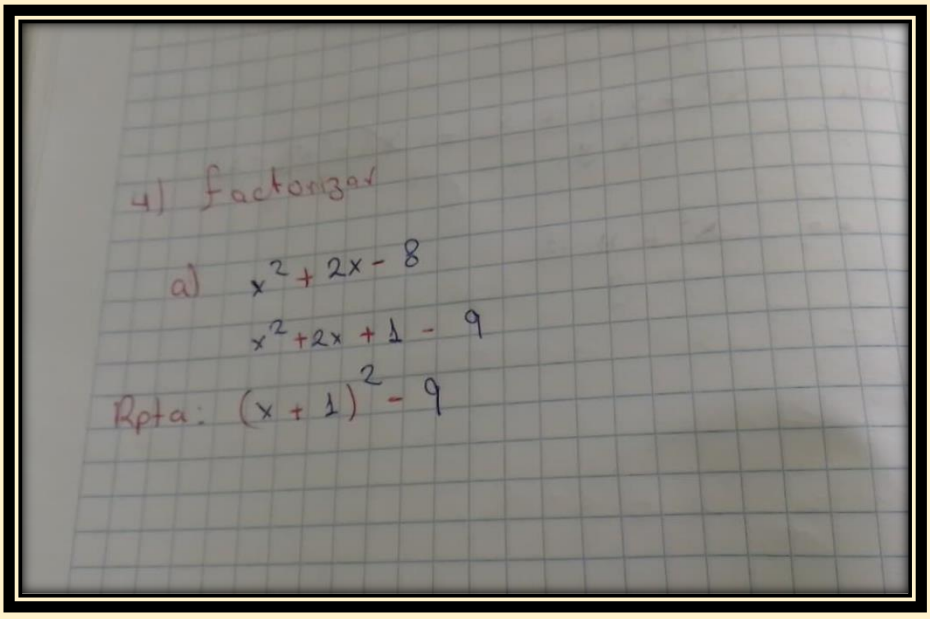


b.-) Resolver:

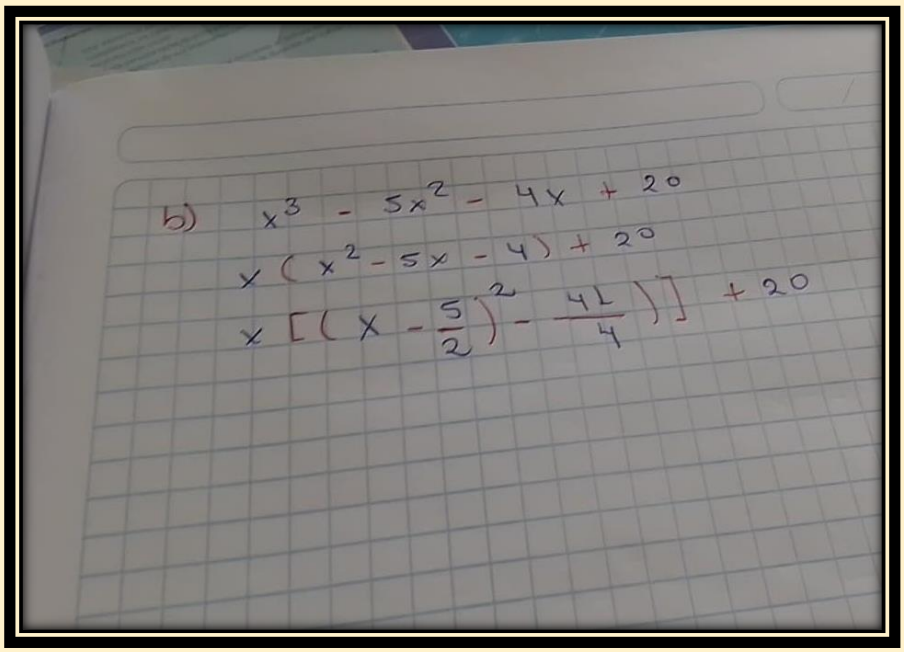


4.-) factorizar

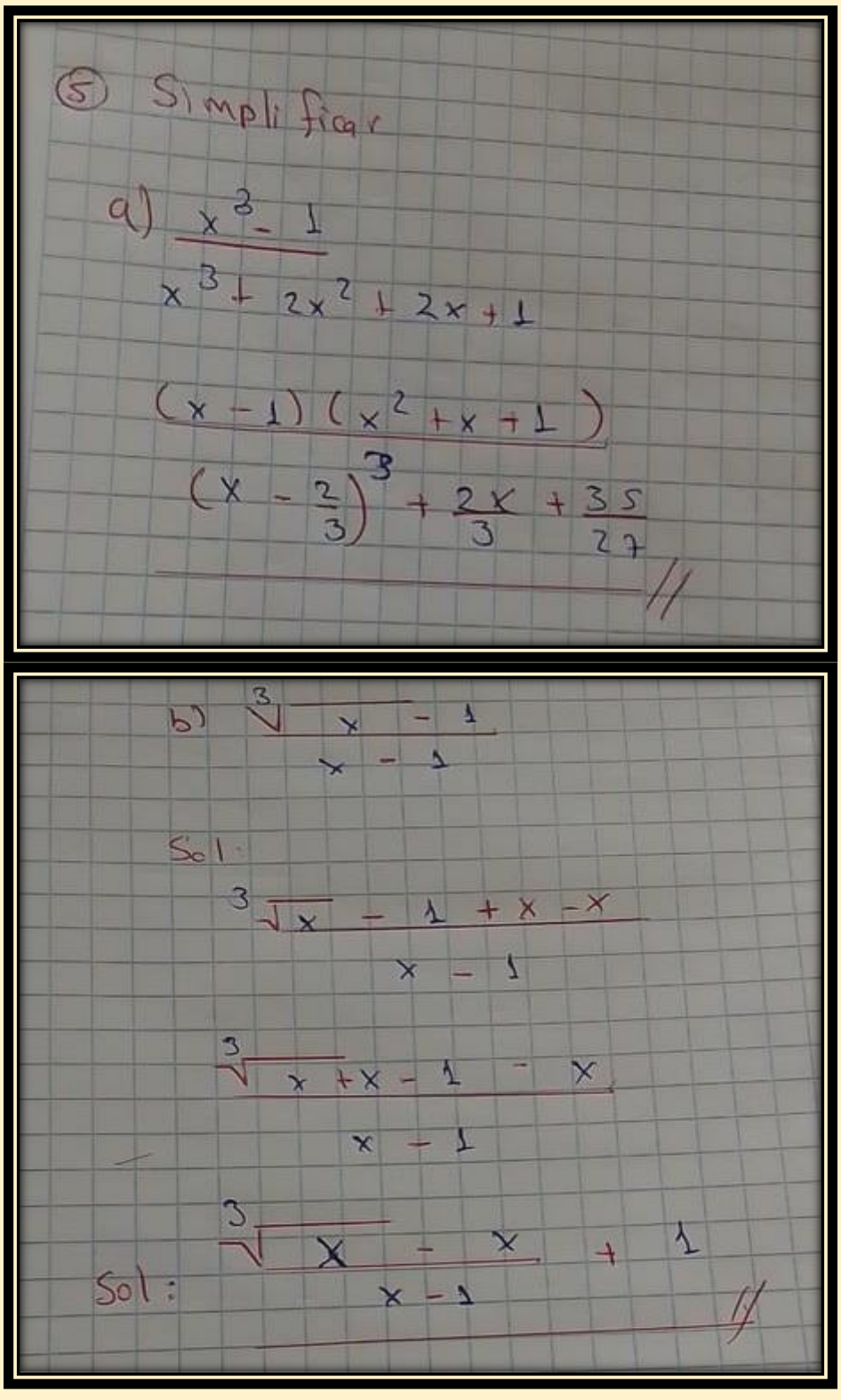
a.-)



b.-)


b) $x^3 - 5x^2 - 4x + 20$
$x(x^2 - 5x - 4) + 20$
$x\left[\left(x - \frac{5}{2}\right)^2 - \frac{41}{4}\right)\right] + 20$

5.-) Simplificar



⑤ Simplificar

a) $\frac{x^3 - 1}{x^3 + 2x^2 + 2x + 1}$

$\frac{(x-1)(x^2+x+1)}{(x-\frac{2}{3})^3 + \frac{2x}{3} + \frac{35}{27}}$ //

b) $\frac{\sqrt[3]{x} - 1}{x - 1}$

Sol:

$\frac{\sqrt[3]{x} - 1 + x - x}{x - 1}$

$\frac{\sqrt[3]{x} + x - 1 - x}{x - 1}$

Sol: $\frac{\sqrt[3]{x} - x}{x - 1} + 1$ //

6.-)