

CONTROL TEMA 4 1º BACHILLERATO B

1. Resuelve:
$$\begin{cases} 3x - y + z = 2 \\ 2x + 5y - 2z = 0 \\ x + y + z = 1 \end{cases} \quad (1,5 \text{ puntos})$$

2. Resuelve:
$$\begin{cases} 2x - 3y + 5z = 6 \\ 5x - 3y + 8z = 6 \\ x + 3y - 2z = -6 \end{cases} \quad (1,5 \text{ puntos})$$

3. Resuelve:
$$\begin{cases} x - 6y = -6 \\ 2x^2 + y^2 = 76 \end{cases} \quad (1,5 \text{ puntos})$$

4. Resuelve:
$$\begin{cases} 2x - \sqrt{y-1} = 2 \\ x - 2y = -8 \end{cases} \quad (1,5 \text{ puntos})$$

5. Resuelve:
$$\begin{cases} 3x + 4y \geq 12 \\ -3x + 4y \leq 4 \\ x - 4 \leq 0 \end{cases} \quad (1,5 \text{ puntos})$$

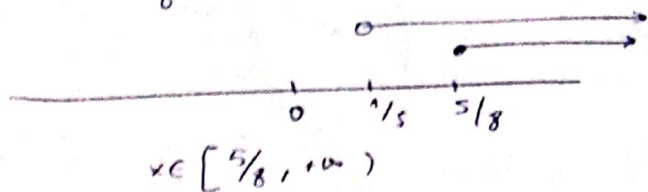
6. Resuelve:
$$\begin{cases} -5x - 3(x-1) \leq -2 \\ 2x + (3x+4) > 5 \end{cases} \quad (1,25 \text{ puntos})$$

7. Resuelve:
$$\begin{cases} -2x^2 - 2x + 12 > 0 \\ \frac{x^2-4}{x+3} \leq 0 \end{cases} \quad (1,25 \text{ puntos})$$

⑥ $-5x - 3(x-1) \leq -2$
 (1,25) $2x + (3x+4) > 5$

$-5x - 3x + 3 \leq -2$
 $-8x \leq -5$
 $x \geq \frac{5}{8}$

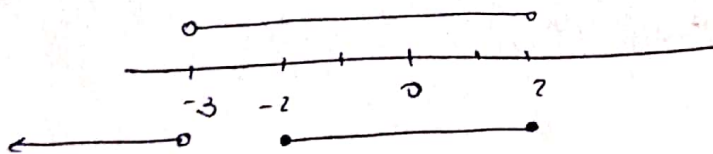
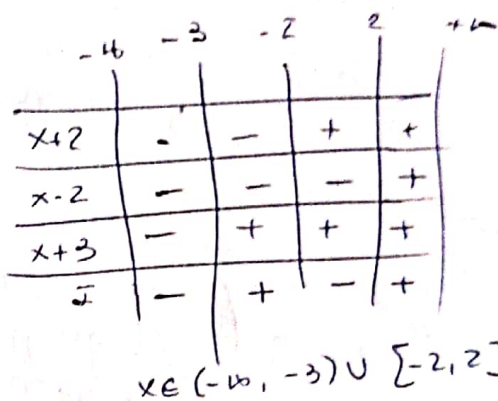
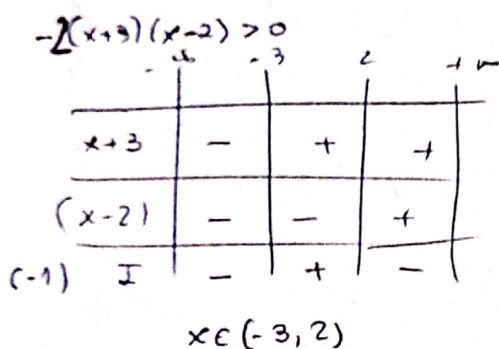
$2x + 3x + 4 > 5$
 $5x > 1$
 $x > \frac{1}{5}$



⑦ $-2x^2 - 2x + 12 > 0$
 (1,25) $\frac{x^2-4}{x+3} \leq 0$

$-2x^2 - 2x + 12 = 0$
 $x = \frac{2 \pm \sqrt{4+96}}{-4} = \frac{2 \pm 10}{-4} = \begin{cases} -3 \\ 2 \end{cases}$

$\frac{x^2-4}{x+3} = \frac{(x+2)(x-2)}{(x+3)} \leq 0$



Solución $x \in [-2, 2)$