

Departamento de Matemáticas $1^{\underline{0}}$ Bachillerato



1 - Números reales

1. Resolver las siguientes inecuaciones:

(a)
$$|x-2|-1 < 0$$
 Sol: $1 < x \land x < 3$

(b)
$$|2x+3|-4<0$$

Sol:
$$-\frac{7}{2} < x \land x < \frac{1}{2}$$

(c)
$$|x+5|-2 \le 0$$

Sol:
$$-7 \le x \land x \le -3$$

(d)
$$|3x - 2| - 0.5 \le 0$$

(e)
$$|x-1|-2>0$$

Sol:
$$(-\infty < x \land x < -1)$$
 (h) $|2x+1| - 0.5 \ge 0$ (3 < $x \land x < \infty$)

(f)
$$|x+2|-5>0$$

Sol:
$$(-\infty < x \land x < -7) \lor (3 < x \land x < \infty)$$

(g)
$$|2x-3|-1 \ge 0$$

Sol:
$$(2 \le x \land x < \infty) \lor (x \le 1 \land -\infty < x)$$

$$|2x+1|-0.5 \ge 0$$

Sol:
$$(-0.25 \le x \land x < \infty) \lor (x \le -0.75 \land -\infty < x)$$