

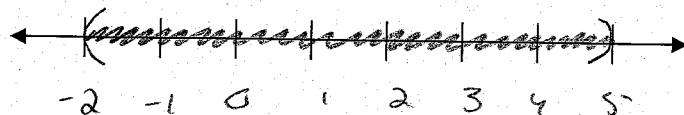
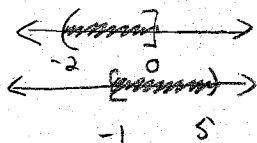
Math172 – Section 1.2: Interval Notation and Graphs

Graph each union or intersection below, and write it as a single interval, if possible. If it's not possible, write the original interval in the space provided. If the answer is the empty set, say so.

$$(-2, 0] \cup [-1, 5)$$

$\cup = \text{"or"}$

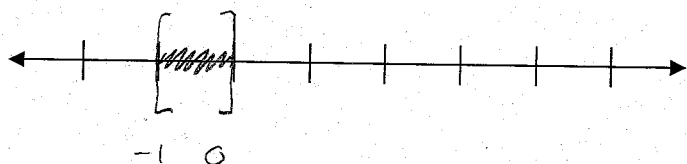
$$\underline{(-2, 5)}$$



$$(-2, 0] \cap [-1, 5)$$

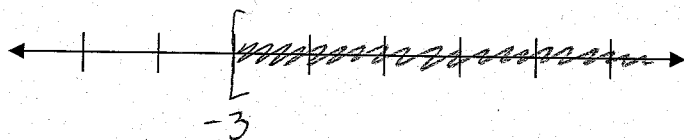
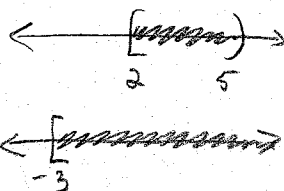
$\cap = \text{"and"}$
so want
overlap

$$\underline{[-1, 0]}$$



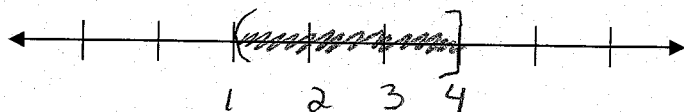
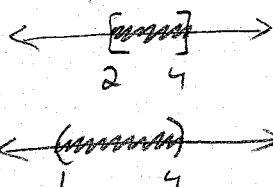
$$[2, 5) \cup [-3, \infty)$$

$$\underline{[-3, \infty)}$$



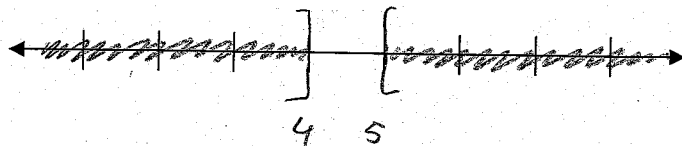
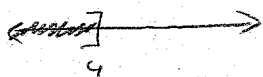
$$[2, 4] \cup (1, 4)$$

$$\underline{(1, 4]}$$



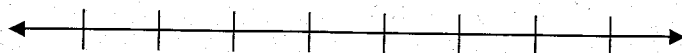
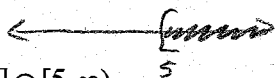
$$(-\infty, 4] \cup [5, \infty)$$

$$\underline{(-\infty, 4] \cup [5, \infty)}$$



$$(-\infty, 4] \cap [5, \infty)$$

$$\underline{\emptyset}$$



↑
deliberately left
blank!