

Algebra II

2-2

Conjunctions

and

Disjunctions

Conjunction- and, For and to be true,
both have to be true

usually look like \leftarrow ~~and~~ \rightarrow

Disjunction- or, For or to be true, one or
the other or both must be true

usually look like \leftarrow] ~~or~~ \rightarrow

True / False

1) The chalkboard and the floor are black. *False*

2) The chalkboard or the floor is black. *True*

3) The walls or ceiling is white. *True*

4) The walls and the ceiling are white. *True*

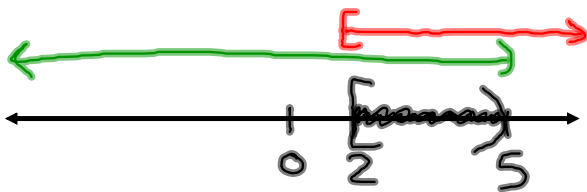
Solve.

$$9) 0 \leq x - 2 < 3$$

$$0 \leq x - 2 \text{ and } x - 2 < 3$$

$$\underline{2 \leq x}$$

$$\underline{x < 5}$$



15) $2t + 7 \geq 13$ or $5t - 4 < 6$

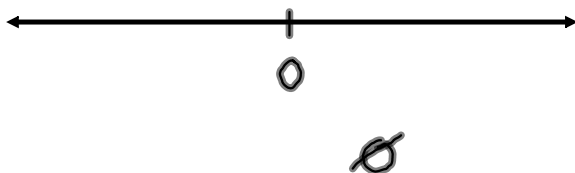
$$2t \geq 6 \quad 5t < 10$$

$$t \geq 3 \quad t < 2$$



17) $2t + 7 \geq 13$ and $5t - 4 < 6$

$$t \geq 3 \quad t < 2$$



$$23) 7q - 1 > q + 11 \text{ or } -11q > -33$$

$$6q > 12 \quad q < 3$$

$$q > 2$$



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Oral 7-12 all

Written 2-36 even