

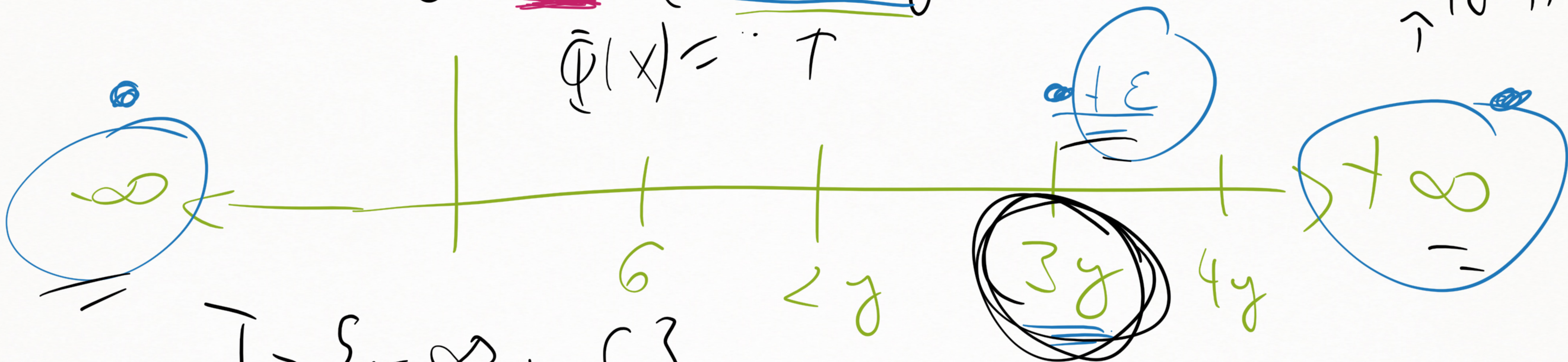
12

$$\neg \exists y \forall x (x > 3y \wedge (x < 6 \vee x > 4y))$$

$$\forall y \exists x \neg (x > 3y \wedge (x < 6 \vee x > 4y))$$

$$\forall y \exists x ((x \leq 3y \vee (x \geq 6 \wedge x < 4y)))$$

$$\Phi(x) = \dots$$



$$I = \{-\infty, 6\}$$

$$\forall y ( \underbrace{-\infty \leq 3y}_1 \wedge (\underbrace{-\infty \geq 6}_2 \wedge \underbrace{-\infty < 4y}_3) ) \vee (6 \leq 3y \vee (6 \geq 6 \wedge 6 < 4y))$$