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Ejercicio 4

todoCyG.[] = True (1)
todoCyG.(x:xs) = circulo.x
$$\wedge$$
 tam.x \geq 10 \wedge todoCyG.xs (2)
e \in_l [] = False (3)
e \in_l (x:xs) = (e == x) \vee e \in_l xs (4)
todoCyG.xs $\equiv \langle \forall y : y \in_l xs : circulo.y \wedge tam.y \geq 10 \rangle$ (HI)

Caso base:

$$\underline{todoCyG.[\]} \equiv \langle \forall y : y \in_{l} [\] : circulo.y \wedge tam.y \geq 10 \rangle$$

$$\equiv \{ Por \ (1) \} \}$$

$$True \equiv \langle \forall y : \underline{y \in_{l} [\]} : circulo.y \wedge tam.y \geq 10 \rangle$$

$$\equiv \{ Por \ (3) \ e := y \} \}$$

$$True \equiv \underline{\langle \forall y : False : circulo.y \wedge tam.y \geq 10 \rangle}$$

$$\equiv \{ Rango \ Vacio \ de \ \forall \}$$

$$True \equiv True$$

$$True$$

Caso inductivo