Hoja de trabajo 3

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1. Ejercico # 1

$$s(s(s(0))) \oplus s(s(s(s(0))))$$
$$s(s(s(s(0)))) \oplus s(s(s(0)))$$
$$s(s(s(s(s(0))))) \oplus s(s(0))$$
$$s(s(s(s(s(s(0)))))) \oplus s(0)$$
$$s(s(s(s(s(s(0))))))$$

2. Ejercicio #4

- $a \oplus s(s(0)) = s(s(a))$

$$a \oplus s(s(0))$$
$$s(a) \oplus s(0)$$
$$s(s(a))$$

- $a \otimes b = b \otimes a$

$$s(a) \otimes b = b \otimes s(a)$$
$$s(a) \otimes b = b \otimes s(a)$$
$$s(a \oplus b) = b \otimes a)$$
$$s(a \otimes b) = s(b \otimes a)$$

tambien añadimos s(b)

$$s(a \otimes s(b)) = s(s(b) \otimes a)$$

$$s(a) \otimes s(b) = s(b) \otimes s(a)$$

Se demuestra con que la propiedad aplica para los sucesores.

- $a \otimes (b \otimes c) = (a \otimes b) \otimes c$