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# Lec 21. Ex. B

$$a. \quad 0 \otimes 0 = (0:m) \otimes (0:n) \\ = 0(m \otimes n)$$

$$\Rightarrow \quad 0 \otimes 0 + m \otimes n = m \otimes n$$

$$b. \quad 0 \otimes n = 0 \otimes (0:n) = 0 \otimes 0$$

$$\Rightarrow \quad m \otimes 0 = 0(m \otimes 0) = 0 \otimes 0$$

c.