

August 24, 2018

$$n_1 + p n_1 = n_2$$

Aug 24-11:03 AM

7.1
#4) $I = \frac{nE}{nr+R}$ for "m"

$$\frac{nr+R}{1} \cdot \frac{I}{I} = \frac{nE}{nr+R} \cdot \frac{nr+R}{1}$$

$$(nr+R)I = nE$$

$$I nr + I R = nE$$

$$-I R \quad -nE - I R$$

$$-nE$$

$$I nr - nE = -I R$$

$$\frac{n(Ir - E)}{(Ir - E)(Ir - E)} = \frac{-I R}{(Ir - E)}$$

$$n = \frac{-I R}{(Ir - E)}$$

Aug 24-11:24 AM

8.1
#15 $n_1 = 67$ $n_1 + p n_1 = n_2$
 $n_2 = 87$
 $p = ?$ $67 + p 67 = 87$

$$67 + (0.298)(67) = 87$$

$$86.966 = 87$$

$$\frac{p 67}{67} = \frac{20}{67}$$

$$p \approx 0.298$$

Percent $\approx 29.8\%$
 $\approx 30\%$

Aug 24-11:41 AM