

Quiz Chapter 8 & 9 – Question Two

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$$10(.708) = 7.08[\text{g}]$$

$$\frac{7.08}{82} = .0863[\text{mol}]$$

$$P = \frac{nRT}{V}$$

$$\frac{.0863 \cdot .0821 \cdot 298}{.25} = 8.45[\text{ATM}] \quad (1)$$

$$8.45 - .7066 = 7.7434[\text{ATM}_{\text{liquid}}]$$

$$\frac{7.7434}{.7066} \cdot .0863 = .946[\text{mol}]$$

$$.946 \cdot 82 = 77.572[\text{g}]$$