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$PV = nRT$  より、

$$P = 1.013 \times 10^5 Pa, V = 3.0 m^3$$

$$R = 8.31 J/(mol \cdot K), T = 273 K$$

を代入して、

$$1.013 \times 10^5 \cdot 3.0 = n \cdot 8.31 \cdot 273$$

$$\therefore n = 13 \times 10^2 mol$$