

§ 2.2 Multiplying Polynomials**Application**

Erin deposited \$800 in a savings account with annual interest rate, r . At the end of three years, Erin will have an amount that is represented by the expression $800(1+r)^3$. Write the expression in simplified form.

Communication

The diameter of a sphere is represented by the expression $(2x-6)$. What is the volume of the sphere in terms of π ? Describe how you found your answer. Recall that $V_{\text{sphere}} = \frac{4}{3}\pi r^3$.