CHAPTER 3 Polynomials 3.4 Communicate With Algebra Terms and Polynomials

## Example:

**a)** Consider the term  $5xy^2$ . Identify the coefficient and the variable part.

**b)** Mahmoud constructed a semicircular fish pond in his back yard. Write a term that expresses the area of the pond in terms of its radius *r*.

## Solution:

**a)** The coefficient is 5. The variable part is  $xy^2$ .

**b)** The area of a circle of radius *r* is given by the expression  $\pi r^2$ . The area of the fish pond can be represented by the term  $\frac{1}{2}\pi r^2$ .

## Practice:

**1.** The cost of insuring a boat can be represented by the term 100mp, where *m* is the mass, in tonnes, and *p* is the purchase price, in dollars. Identify the coefficient part and the variable part.

**2.** An Islander light aircraft can be fitted with two or three engines. Each engine burns 64 L of fuel per hour of flight. Write a term that represents the total fuel burned in terms of the number of engines n and the number of hours flown h.



## Answers:

1. coefficient: 100, variable: mp

**2.** 64*nt*