

**Exercise 46**

In the following exercises, translate the phrases into algebraic expressions.

- (a) the sum of  $3x^2y$  and  $7xy^2$
- (b) the product of  $6xy^2$  and  $4z$
- (c) Twelve more than  $3x^2$
- (d)  $7x^2$  less than  $63x^3$

---

**Solution**

- (a)  $3x^2y + 7xy^2$
- (b)  $(6xy^2)(4z) = 24xy^2z$
- (c)  $3x^2 + 12$
- (d)  $63x^3 - 7x^2$