

# 15.4 Worksheet

## Multiplying Monomials and Powers of Monomials

Simplify.

1.  $(x)(3x)$

2.  $(-2ab)(-2a^2)$

3.  $(2yz)(3y^2)$

4.  $x^2(3y^2)(4xy)$

5.  $4x^5(-x^3y^2z)(-y^2z)$

6.  $(x^4)^2$

7.  $(-3m^2)^3$

8.  $(2c^4d^3)^4$

9.  $(-p^5q^2)^2$

10.  $-(p^5q^2)^2$

11.  $(3u)(uv^4)^2$

12.  $-2s(st)^4$

13.  $3m^2n^3(m^2n)^3$

14.  $(yz^2)^2(-4y^2)^2(2z^2)$

15.  $(-pq^2)^2(2pq)^3(5p^2q)$