

## Exercises 1.7

Simplify the following.

1.  $4x^3 \cdot 2x^3$

2.  $\frac{x^4}{x^7}$

3.  $8^0$

4.  $-(9x)^0$

5.  $(x^2y)^4$

6.  $\frac{6x^7}{2x^4}$

7.  $\left(\frac{2x^5y}{xy^4}\right)^3$

8.  $5^{-1}$

9.  $7^{-2}$

10.  $\frac{x^{-1}}{x^{-8}}$