

1. Simplify the following expressions if possible. If already simplified, then write cannot be simplified or rewrite the expression.

a.  $y^3 + y^3$

b.  $y^3 \cdot y^3$

c.  $(y^3)^5$

d.  $y \cdot y^3$

e.  $-p^4 - 3p^4$

f.  $-11p^7 \cdot 4p^3$

g.  $-9p^4 - p^9$

h.  $(5p^4)^3$

2. Find the product of the monomial and the binomial.

a.  $-3x^2(5x-2)$

b.  $\frac{1}{8}t(t+12)$

c.  $-5x^2(x-11)$

d.  $8p^2(-2p^2 + p)$

3. Simplify completely.

a.  $2y - 9y(-3 - y^5)$

b.  $-3(-2x+5) - 5(-7x-1)$