

## Sec 11-1: Simplifying Radicals

Simplify each.

1.  $\sqrt{121c^2}$   
 $11c$

2.  $\sqrt{32g^8}$   
 $4g^4\sqrt{2}$

3.  $\sqrt{25m^3}$   
 $5m\sqrt{m}$

4.  $\sqrt{147h^7}$   
 $7h^3\sqrt{3h}$

5.  $\sqrt[3]{54p^{14}}$   
 $3p^4\sqrt[3]{2p^2}$

$2^3 = 8$   
 $3^3 = 27$   
 $4^3 = 64$   
 $5^3 = 125$

Simplify.

6.  $\sqrt{48a^{11}b^{27}}$   
 $4a^5b^{13}\sqrt{3ab}$

7.  $\sqrt[3]{16x^{12}y^{32}}$   
 $2x^4y^{10}\sqrt[3]{2y^2}$

$2^3 = 8$   
 $3^3 = 27$