Algebra 2	Bellwork	Tuesday, February 23, 2016	5
Simplify each.	Use absolute valu	e symbols where necessary.	
1. $\sqrt{288m^{12}n^{23}}$	237	2. $\sqrt{256g^{17}h^{41}k^5}$	3. $\sqrt[6]{a^{18}b^{14}c^{29}}$

4. Find the original probem that gave the following simplified answers. a)  $3x^3y^7\sqrt{x}$  b)  $2d^5eg^2\sqrt[4]{5d^3e^2}$ 

Simplify each. Don't give answers with rounded decimals (this means if necessary give fractional answers in reduced form).

5.  $(9x^8)^{-\frac{3}{2}}$  6.  $(2m^{-\frac{7}{2}})^4$ 



Answer

3.  $\sqrt[6]{a^{18}b^{14}c^{29}}$ 

0

 $2 \frac{4}{c} \frac{6}{b^2 c^5}$ 

1

a) 
$$3x^{3}y^{7}\sqrt{x}$$
  
b)  $2d^{5}eg^{2}\sqrt[4]{5}d^{3}e^{2}$   
 $\sqrt{9}\sqrt{7}\sqrt{14}$   
 $\sqrt{9}\sqrt{7}\sqrt{14}$   
 $\sqrt{80}d^{2}e^{6}g^{8}$ 

Simplify each. Don't give answers with rounded decimals (this means if necessary give fractional answers in reduced form).

5. 
$$(9x^8)^{-\frac{3}{2}}$$
  
 $\frac{1}{(\sqrt{9})^3 \chi^{8.3/2}} = \frac{1}{27\chi^{12}}$   
6.  $(2m^{-\frac{7}{2}})^4 = \frac{2^4}{m^{\frac{7}{2}} \cdot 4} = \frac{16}{m^{\frac{14}{14}}}$