Reminders: Please **show all your work** neatly <u>on this worksheet</u>.
This should be some of your most careful work!

Name: _____

	Show your work neatly (when relevant). Place your answer in the box at the right	
1.	Simplify: a) $(10x + 5y)^0$ b) $10x^0$	a) b)
2.	Simplify: $(\frac{1}{2}x^5y)(\frac{2}{3}x^2y^3)$	
3.	Simplify: $(-5xy^{-2})^{-3}$	
4.	Simplify: $\dfrac{25x^{-2}y^5}{36xy^{12}} \cdot \dfrac{12xy^7}{35x^5y^{-1}}$	
5.	Simplify: a) $2x^{-2}$ b) $\dfrac{2x^{-2}}{5y}$ c) $\dfrac{2x^{-2}}{5y^{-1}}$.	a) b) c)
6.	Simplify: $(144)^{1/2}$	
7.	Simplify: $(27)^{2/3}$	
8.	Simplify: $(32)^{3/2}$	

Reminders: Please **show all your work** neatly <u>on this worksheet</u>.
This should be some of your most careful work!

9.	Simplify: $\sqrt[3]{-64x^{22}y^{14}}$	
10.	Simplify: $\sqrt{x^5} \cdot \sqrt[3]{x^2}$	
11.	Simplify: $\dfrac{\sqrt[3]{x^5}}{\sqrt{x}}$	
12.	Simplify: $\dfrac{\sqrt[3]{x}}{\sqrt[3]{x^2}}$	