

ALL PROBLEMS CAN BE COMPLETED ON THIS WORKSHEET

WS 2B.1 – Expressions Containing Exponents

#1-19, Simplify each expression.				
1. 3^2	2. -3^2	3. (-3^2)	4. $(-3)^2$	5. $-(-3)^2$
6. 3^3	7. -3^3	8. (-3^3)	9. $(-3)^3$	10. $-(-3)^3$
11. $\left(\frac{1}{2}\right)^4$	12. $\left(-\frac{1}{5}\right)^2$	13. $-\left(\frac{1}{5}\right)^2$	14. $\left(-\frac{1}{5}\right)^3$	15. $-\left(-\frac{2}{3}\right)^2$
16. $(10 - 12)^6$	17. $-(4 - 5)^{235}$	18. $5 \cdot a \cdot a \cdot a \cdot a \cdot b \cdot b$	19. $2 \cdot n \cdot n \cdot m \cdot m \cdot 4 \cdot n$	

#20-23 Evaluate each expression for the given values of the variables.	
20. $2x^2 - 3x + 4$, for $x = -3$.	21. $-15m^{11}p^{20}q^{12}$, for $m = 1$, $p = -1$, $q = 0$.
22. $w^4 + 2w^3 - 7w^2 - 3w$, for $w = -1$.	23. $\frac{10h^2}{k^3} + 2h$, for $h = -4$, $k = -2$.