Adv Alg 2 Wk 11 Review block Hwk Name_____

NO WORK = NO CREDIT!!!.....SHOW ALL WORK!

1-3.Simplify leaving only positive exponents. 1. $(3a^{-2})^3(a^3)^{-4}$	2. $\left(\frac{p^{-2}}{2p^4}\right)^3$	3. $\frac{(2m^2p^3)(m^2p)^{-2}}{(-3mp^4)^0(2m^3p^4)^3}$
4. Solve for y: $5cy - d = 4d - wy$	5-6 Solve by completing the square. 5. $x^2 + 20x - 11 = 0$	6. $c^2 + 3c - 1 = 0$
7. Put $y - 4 = \frac{-7}{8}(x - 3)$ into **Standard Form**	8. Solve and sketch the solution on a number line. $7 - \lvert 2j - 2 \rvert \le 1$	9. Solve. $\log_2 7x = \log_2\left(x^2 + 12\right)$

OVER ☺

10-12. Simplify. 10. $\frac{x+3}{x+5}+\frac{6}{x^2+3x-10}$	11. $\frac{\frac{3k+1}{2k}}{\frac{9k^2-1}{(4k)^2}}$	12. $\sqrt[4]{16a^3c^9d^6}$
13. Find the x-intercepts as ordered pairs $y=4x^2+4x-3$	14. Solve using exact answers. $\frac{x}{x-1}=\frac{2x+1}{x+3}$	15. Solve. Round to the nearest tenth. $4^{2x-1}=115$
16.Explain the transformation from $f(x)=x^2$ to $g(x)$: $g(x)=4x^2+1$	17. Write the equation of the line in **point slope form** that goes through (-4,2) and is parallel to 3x-5y= 9	18. Write the equation of the line in **slope intercept** form that is perpendicular to 3x-5y=9 and goes through (6,-1)