

Alg2 – Solving Equations using Functions & Algebra, due Monday 9/18

Solve the following equations using algebra, and then verifying your solution by substituting your results into the original equations. Discard any extraneous solutions. Draw graphs *for yourself* to verify your final solution(s).

1. $3|x + 7| = 12$

2. $|4 - 2q| + 5 = 9$

3. $3|2x + 5| = 9x - 6$

4. $2|4x - 5| = 12x - 18$

5. $|x + 5| = 3x - 7$

6. $|2w - 3| = 3w - 2$