Absolute Value Equations

Do all work on notebook paper. All steps should be shown. All work should be neat and organized.

Solve the equations.

1. $|x| = 8$
2. $2|x| = 12$
3. $|2x - 1| = 7$
4. $|3 - 4x| = 11$
5. $|3x - 8| = -7$
6. $\left| \frac{3}{4}x - 2 \right| = 4$
7. $|2x + 5| = 0$
8. $3|5x + 1| - 1 = 5$
9. $3|3x + 8| + 2 = 8$
10. $2|3x - 1| + 7 = 7$
11. $5|x - 4| + 6 = 1$
12. $5 - |2x - 3| = -7$