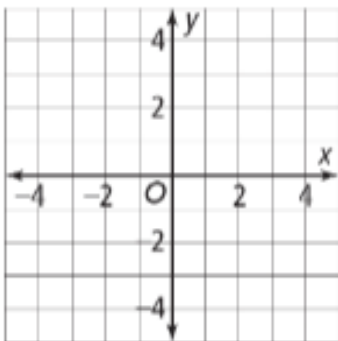


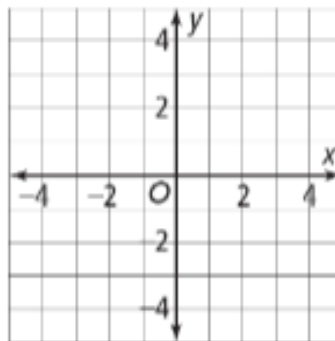
1.5 Solving Equations and Inequalities by graphing Notes

Examples: Use a graph to solve the equation

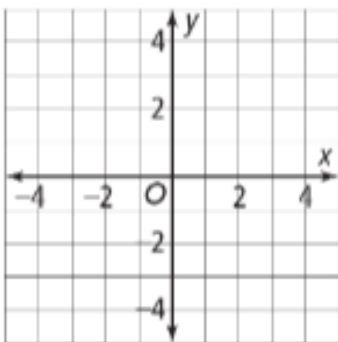
1. $5x - 12 = 3$



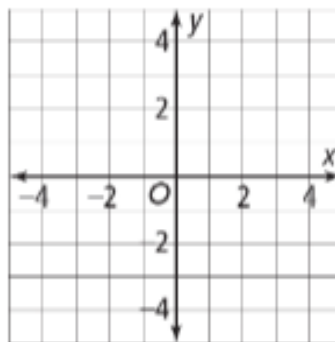
2. $|x - 4| = \frac{1}{2}x + 1$



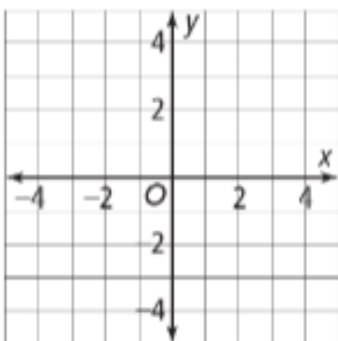
2. $-|x - 2| = -\frac{1}{2}x - 2$



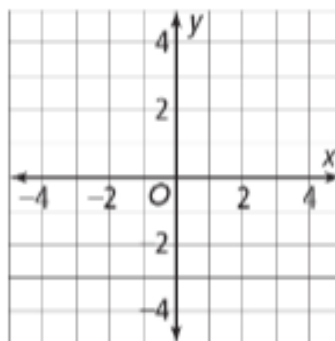
4. $|x - 1| = (x + 1)^2$



5. $x^2 - 4 < 0$



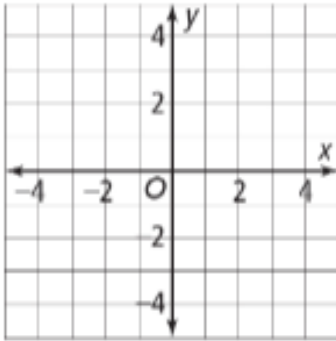
6. $2(x - 3)^2 - 2 \geq 0$



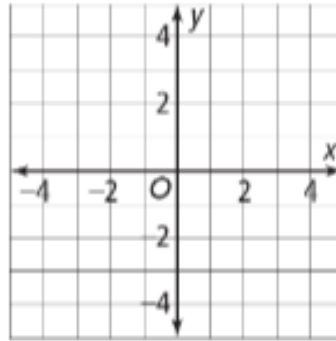
1.5 Solving Equations and Inequalities by graphing Practice

Examples: Use a graph to solve the equation

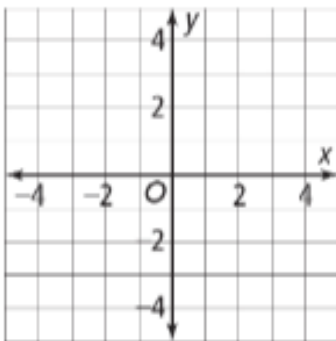
1. $|x - 4| - 4 = \frac{1}{2}x$



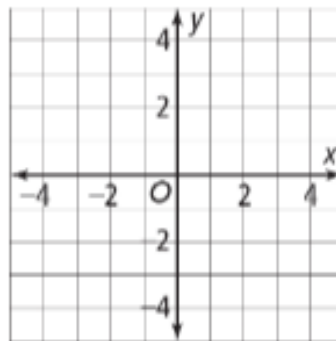
2. $3x + 2 = x + 4$



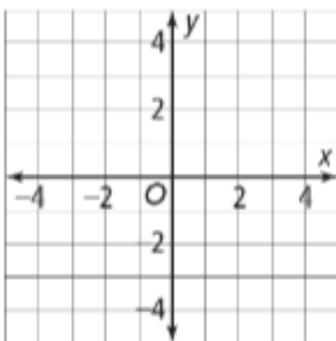
3. $|x + 8| = |x - 2|$



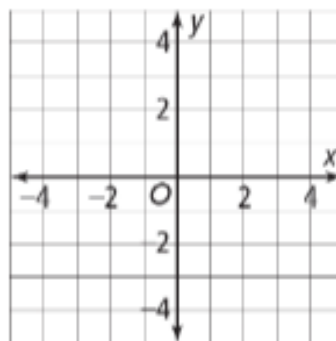
4. $-x + 2 = x^2$



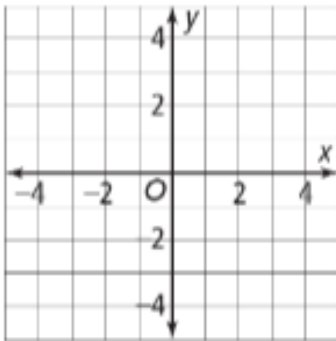
5. $-|x + 1| - 1 = x + 3$



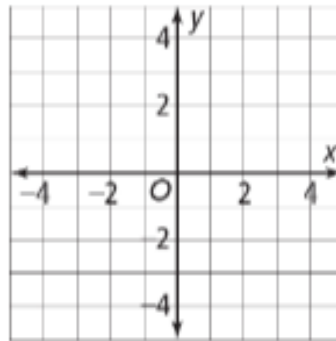
6. $(x + 3)^2 + 2 = |x + 1| + 2$



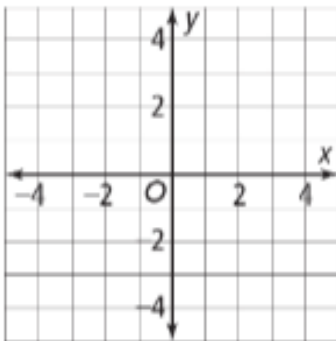
7. $-x^2 + 4 < 0$



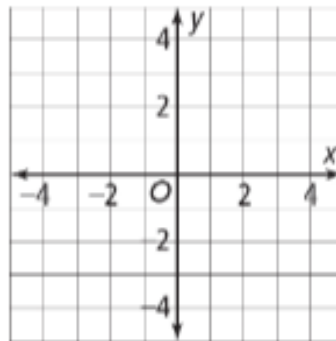
8. $(x - 4)^2 + 1 \geq 0$



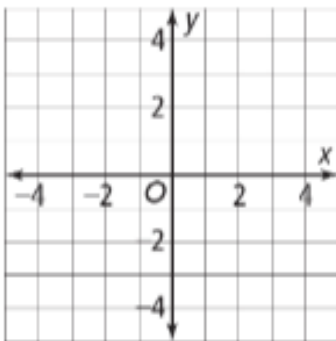
9. $-|x - 1| + 2 < 0$



10. $2|x + 2| - 4 \geq 0$



11. $|x + 8| \leq |x - 2|$



12. $-x + 2 < x^2$

