

Name: _____

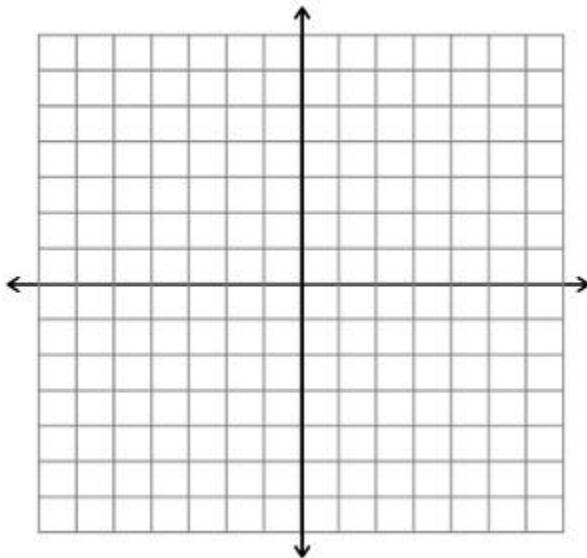
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Solving Equations Worksheet

1. Consider the equation $\frac{4}{5}x + \frac{3}{6} = \frac{9}{8}$.

a. Solve this equation algebraically.

b. Sketch the graph for $\frac{4}{5}x + \frac{3}{6} = \frac{9}{8}$



c. What do you have to adjust in order to see where Y1 and Y2 are equal? What did you adjust it to?

d. Why is it helpful to understand how to solve this problem algebraically and using the first curve, second curve, guess method?

2. Consider the equation $x^2 + 2x + 1 = 9x$

a. Plug the equation into the calculator to get the graph. What must you adjust to see the intersections?

b. How many solutions are there based on the graph? What are the values of x ?

c. How can we rewrite this equation? What form is it now it?

d. When rewritten in our new form, how can we solve the equation? Do we arrive at the same answers?

e. With $x^2 + 2x + 1 = 9x$ is plugged into our calculator, what is different about our table? (Consider comparing to previous problems)