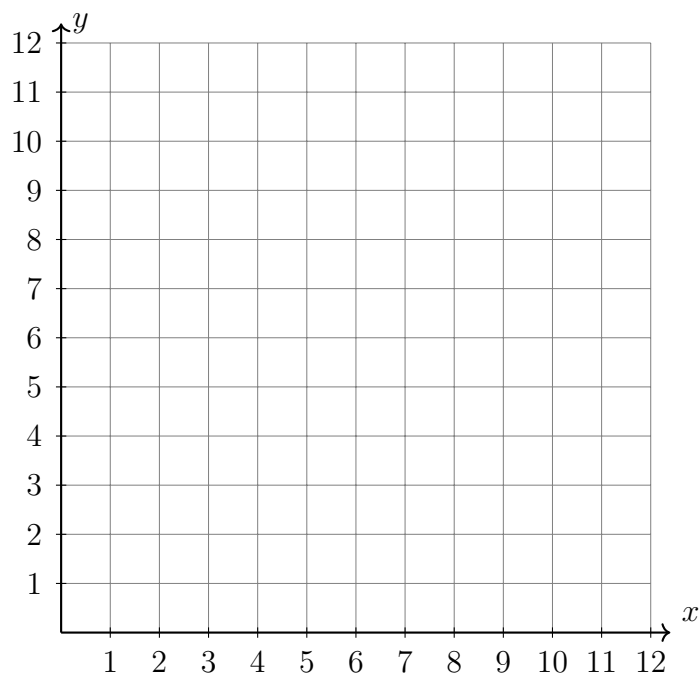


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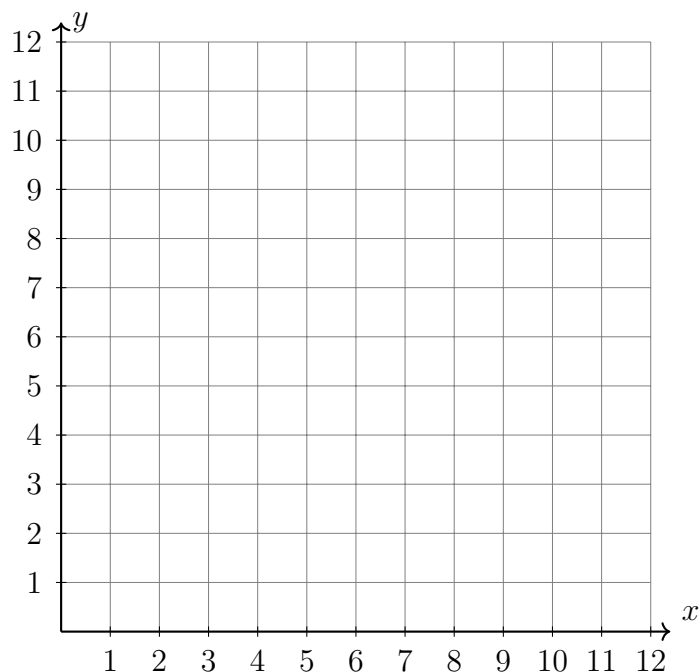
6.9 Classwork: Applications of systems of linear equations

HSG.REI.C.6

1. Two values, x and y , have a total of 12. The larger, y , is 3 more than twice x . Write a system of linear equations to represent this situation, then graph them to solve.



2. Steve buys eight sandwiches for his friends. Small sandwiches cost \$3 and large ones \$6. He spends \$33 in all. How many of each kind did he buy?



3. Graph and label the two equations. Mark their intersection as an ordered pair.

$$f(x) = -\frac{1}{2}x + 3$$

$$g(x) = \frac{7}{4}x - 6$$

Are the lines parallel, perpendicular, or neither? Justify your answer.

