

Chapter 1 – Section 1.5 Geometric Properties of Linear Function

TICKET-IN-THE-DOOR

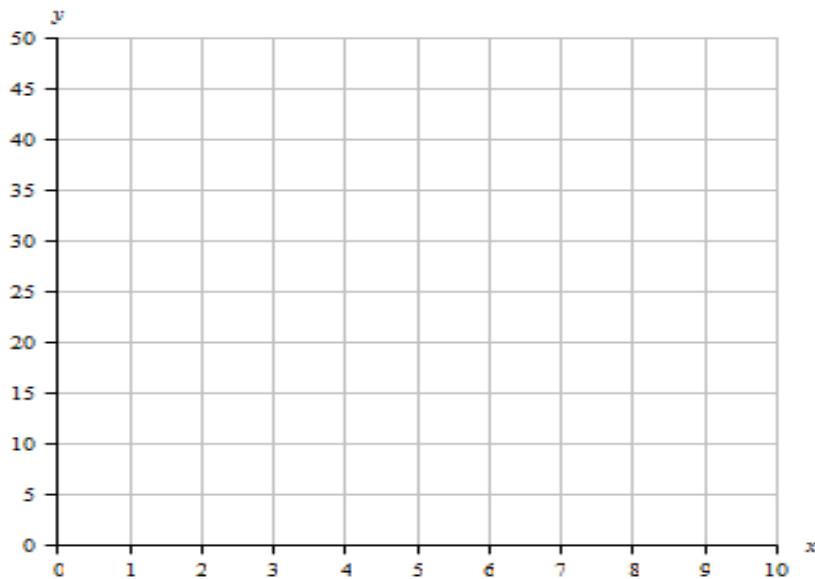
In order to be prepared for class you must watch the module and complete the following activity. This is due first thing when you get to class.

List the **three methods** for solving a system of linear equations

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Check your understanding:

- Franklin Meadows is considering opening a lumber business. He estimates that his total expenses will be represented by the formula $M_{\text{expenses}} = 19.8 + 3.6x$ and that his total sales will be estimated by the formula $M_{\text{sales}} = 7.2x - 5.4$. (where x is the number of years the business has been operating and M is in \$1,000s.)



Graph both equations using a ruler for accuracy. How **many years** will it take for Franklin's sales to equal his expenses?

- Solve both systems by *any* method you wish.

$$3x - 5y = -10$$

$$4x + y = 25$$

$$x - 3y = 8$$

$$-4x + 9y = -26$$