Section 3-1 Solving Systems Using Tables and Graphs When you have two or more related unknowns, they can be represented in a **system of equations**.

linear system: consists of linear equations

Solution to the system: set of values of the variables that make all equations true.

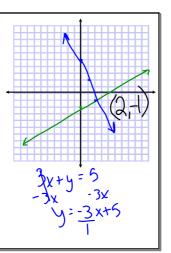
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Solving by graphing:

Solve:

$$(x - 2y = 4)$$

 $(3x + y = 5)$

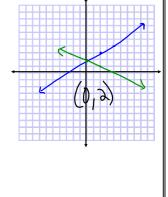


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Solve:

$$\begin{cases} 2y - x = 4 \\ \frac{1}{2}x + y = 2 - 1 \\ \frac{1}{2}x \end{cases}$$

2y - x = 4 4y = x + 4

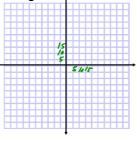


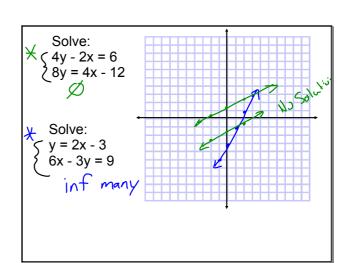
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Greenland sharks have a birth length of 37 cm and grow at an average of 0.75 cm/yr. Spiny dogfish sharks have a growth rate of 1.5 cm/yr and a birth length of 22 cm. At what age would both sharks be the same length?

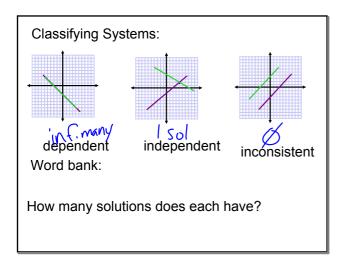
Use any method

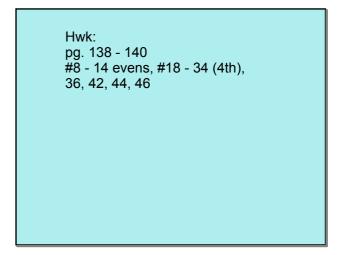
$$\begin{array}{l} x-yrs \\ y-total length \\ y=\frac{3}{4}x+37 \\ y=\frac{3}{4}x+2a \end{array}$$





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