

NOTES: LESSON 4.4 – INTERSECTING LINEAR EQUATIONS

Learning Goal: I can identify and verify the x and y values that **simultaneously satisfy** two linear equations that **intersect** on a graph.

Meta de Aprendizaje: Puedo identificar y verificar los valores de x e y que **cumplan simultáneamente** dos ecuaciones lineales que **se cruzan** en un gráfico.

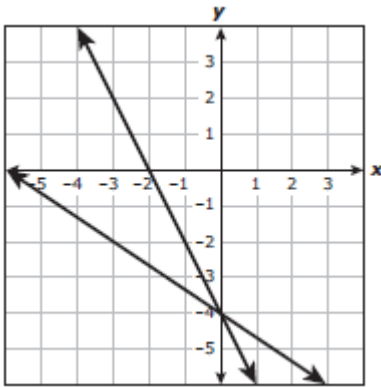
Language Goal: I can interpret a graph of two **intersecting** lines and describe the meaning of the **point of intersection**.

Lenguaje Objetivo: Puedo interpretar un gráfico de dos líneas que **se cruzan** y describir el significado del **punto de intersección**.

- **To intersect** means _____.
- **WHEN** two lines _____, both lines have the same _____.
- **WHERE** two lines _____, the two linear equations are
“ _____ ”,
which is a weird way of saying the lines have the same _____.

EXAMPLE 1

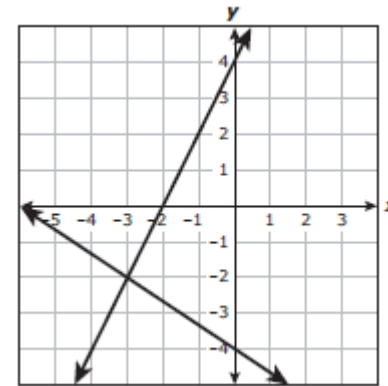
The two lines graphed below represent an equation.



What ordered pair represents a **solution** to both equations?

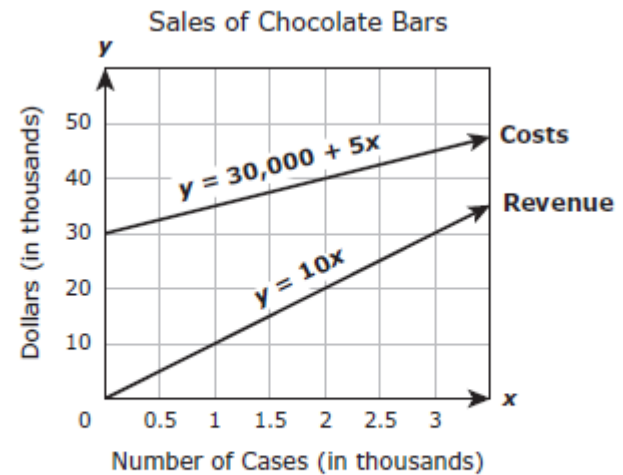
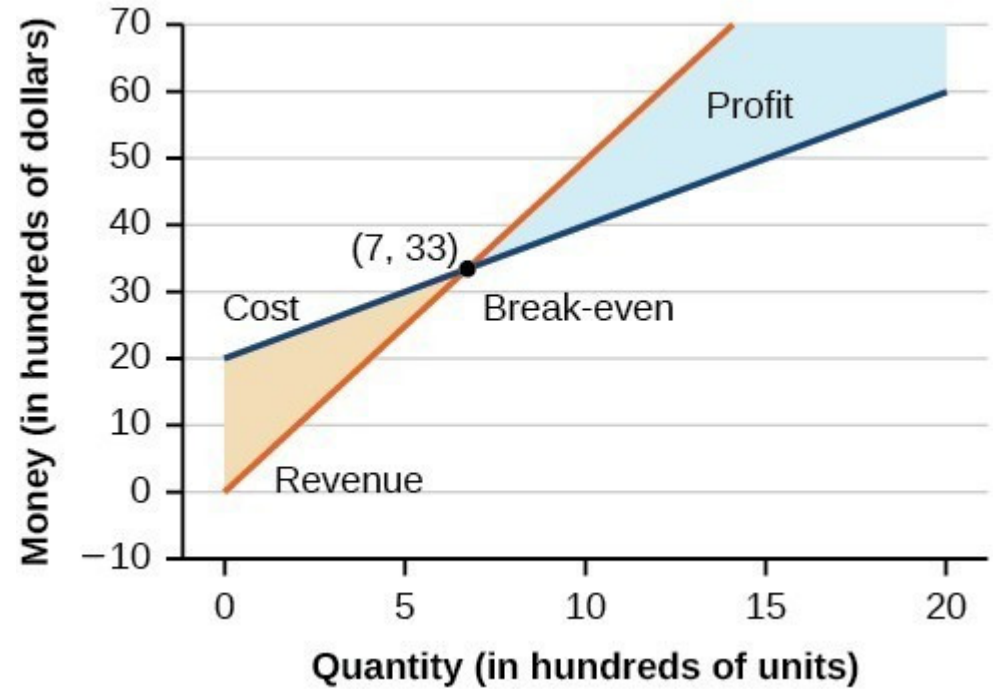
EXAMPLE 2

The two lines graphed below represent an equation.



What x and y values **simultaneously satisfy** both equations?

When is this used in the REAL WORLD?!?



How many cases of chocolate bars will this company need to sell in order for costs and revenue to be equal?