

Daily Agenda

Learning Target: I can solve a system of equations.

In Class

Unit 1 Task

Homework

2.1 Formative

With the new day comes new strength and new thoughts.
-Eleanor Roosevelt

Nov 15-8:24 PM

(C, F)

a. (0, 32) (100, 212)
 $m = 1.8$
 $F - 212 = 1.8(C - 100)$
 $F = 1.8C + 32$

b. 2948°F c. 37°C d. 104°F ^{HOT}

e. -459.4°F

f. $C = -273^\circ$

g. $C = \frac{F - 32}{1.8}$
 $\frac{5}{9}F - \frac{1600}{9}$

Sep 16-11:22 AM

2.1 Linear Systems

Methods to Solve

1. Graphing
2. Substitution
3. Elimination

Aug 31-10:35 PM

Solve the system by graphing

$y = 2x - 4$
 $y = -3x + 1$ (1, -2)

$-2 = 2(1) - 4$
 $-2 = 2 - 4$ ✓
 $-2 = -3(1) + 1$
 $-2 = -2$ ✓

Aug 31-10:40 PM

Solve the system by substitution

$2x + 4y = 12$ (4, 1)
 $y = -x + 5$

$2x + 4(-x + 5) = 12$
 $2x - 4x + 20 = 12$ $y = -4 + 5$
 $-2x = -8$ $y = 1$ ✓
 $x = 4$

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Solve the system by elimination

$3x - 5y = 18$ $3x - 5y = 18$
 $5(2x + y = -1)$ $10x + 5y = -5$
 $13x = 13$
 $x = 1$ (1, -3)

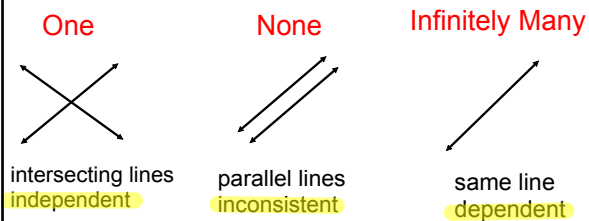
$2(1) + y = -1$
 $2 + y = -1$
 $y = -3$

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Partner Time

With your table partners, brainstorm the types of solutions you could have when solving a system of equations

Sep 9-7:48 AM

Types of Solutions

Sep 1-8:18 AM

Solve the system by the method of your choice

$$\begin{array}{r}
 4x + 6y = 12 \\
 2(-2x - 3y = 6) \\
 \hline
 4x + 6y = 12 \\
 -4x - 6y = 12 \\
 \hline
 0 = 24 \\
 \text{inconsistent}
 \end{array}$$

Sep 1-8:48 AM

Solve the system by the method of your choice

$$\begin{array}{r}
 \frac{2}{1} \left(\frac{2}{x} - \frac{5}{y} = 12 \right) \\
 \frac{3}{x} + \frac{10}{y} = -17 \\
 \hline
 \frac{2}{1} - \frac{10}{y} = 12 \\
 2 - \frac{10}{y} = 12 \\
 y \cdot \frac{-10}{y} = 10 \cdot y \\
 \frac{-5}{y} = \frac{10 \cdot y}{y} \\
 y = -\frac{1}{2}
 \end{array}
 \qquad
 \begin{array}{r}
 \frac{4}{x} - \frac{10}{y} = 24 \\
 \frac{3}{x} + \frac{10}{y} = -17 \\
 \hline
 \frac{7}{x} = 7 \quad x = 1 \\
 7x = 7
 \end{array}$$

Sep 1-8:48 AM