

Session 1.2

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Problems

1. Plot by finding a few points $y = 3x - 5$
2. Plot by finding a few points $y = \frac{1}{3}x + 7$
3. Plot by finding a few points $2x + 3y = 1$
4. Solve $3x - 7 = 4(x + 1)$
5. Solve $4x + 1 - 5x = 5 - (x + 4)$
6. Solve $\frac{2x}{5} + 3 = \frac{29}{5}$
7. Solve $\frac{2x}{5} + 3 = \frac{4}{7}$
8. Solve $3/5 : 6 = 8 : x$
9. Solve $\frac{72}{x} = \frac{8}{5}$
10. Solve $\frac{12}{x - 5} = \frac{-18}{x}$
11. Solve $(1 + 4 + 1 + 4) * x = 14140$
12. The average of 25 and x is 2013. Solve for x .
13. Determine the value of $\frac{3x + 4}{7}$ if we have that $\frac{9x + 4}{4} = 3x - 5$
14. A town's population increased by 700 people, and then this new population decreased by 5%. The town now has 20 fewer people than it did before the 700 person increase. Determine the number of people in the town's original population.
15. After a long walk yesterday, Cody wants to go 50% farther today in half as much time. What percent faster will she have to walk today than she did yesterday to meet her goal?