Chapter 6 Systems of Equations and Inequalities

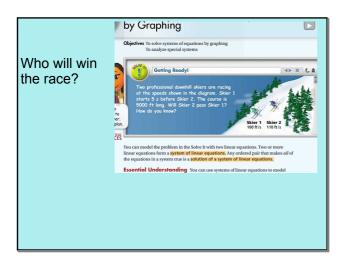
-solving systems in two variables by graphing, substitution and elimination -solving linear inequalities

Section 6-1 Solving Systems by Graphing

Students will be able to:

- -solve systems of equations by graphing -analyze special systems

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Two or more linear equations form a system of equations.

-solution to the system is the ordered pair that makes all of the equations true.

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If the system is as follows, how could we find the ordered pair that made both equations true? y = 2x + 4y = x + 2

By graphing the two lines, we can find the ordered pair that makes them both true. It is the intersection point. y = 2x + 4y = x + 2

One satellite radio service charges \$10 per month plus an activation fee of \$20. A second service charges \$11 per month plus an activation fee of \$15. In what month was the cost of service the same?

$$C = 10x + 20$$

 $C = 11x + 15$

Classify: Consistent, Inde

How many solutions?

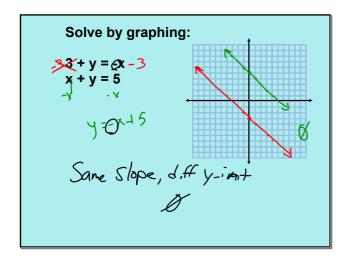
Classify:
Consistent, Independent

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Consistent, Independent

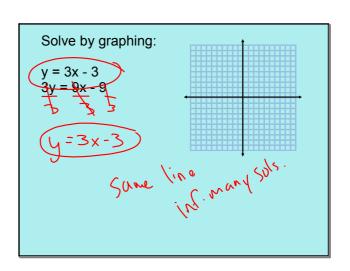
Classify:
Consistent, Independent

Classify:
Consistent, Dependent

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How can the original equations tell you how many solutions the system will have?

Hwk: pg. 367 - 368 #10 - 18(4th), 20, 22-30(4th), 32, 34, 35 - 38 all, 40

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