Journal Entry:

How can you tell by looking at a system of equations without graphing and tell how it is going to classify? Give and example for each of the classifications. Section 3-2 Solve Systems Algebraically

Aug 18-2:52 PM

Aug 18-2:52 PM

Graphing gives approximate values for the solution most of the time. Therefore, we are going to look at how to get exact solutions to systems using Algebra.

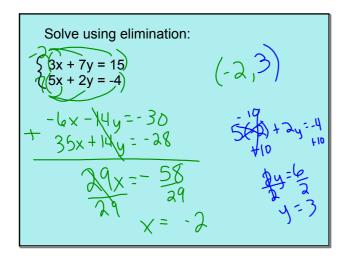
- 2 Methods:
 - -Substitution
 - -Elimination

Solving by Substitution: $\begin{cases}
x + 3y = (5 - 3y) & X = 6 - 3(2.6) \\
-2x - 4y = -5 & X = 6 - 7.5 \\
x = -2.5
\end{cases}$ -2(6 - 3y) - 4y = -5 -10 + 6y - 4y = -5 -10 + 2y = -6 +10 2y = 2 2y = 2

Aug 18-2:52 PM Aug 18-2:52 PM

An online music company offers 15 downloads for \$19.75 and 40 downloads for \$43.50. Each price includes the same one-time registration fee. What is the cost of each download and the registration fee?

X+ 16y = (19.75-15y) 26y 36 39 4 X+ 40y = 43.50 X-ARE 19.75-16y + 40y = 43.50 Y-download 19.75-16y + 40y = 43.50 19.75+26y = 43.75 Solving a System using Elimination -try to eliminate a variable by creating inverses of each other. $\begin{array}{c}
-2x + 8y = -8 \\
5x - 8y = 20
\end{array}$ $\begin{array}{c}
3x = 12 \\
3 \\
x = 4
\end{array}$ $\begin{array}{c}
3x = 20 \\
3x = 20
\end{array}$ 3-2.notebook October 28, 2013



Solve: $\begin{cases}
-x + y = (2 + x) \\
2x - 2y = 0
\end{cases}$ $\begin{cases}
-x + y = (2 + x) \\
2x - 2y = 0
\end{cases}$ $\begin{cases}
-x + y = -2 \\
-x + y - 2x = 0
\end{cases}$ $\begin{cases}
-x + y = -2 \\
-x + y = -2
\end{cases}$ $\begin{cases}
-x + y = -2 \\
-x + y = -2
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\end{cases}$ $\begin{cases}
-x + y = -2 \\
-x + y = -2
\end{cases}$ $\begin{cases}
-x + y = -2 \\
-x + y = -2
\end{cases}$ $\begin{cases}
-x +$

Aug 18-2:52 PM

Aug 18-2:52 PM

Hwk:
pg. 146 - 148
#10, 14, 26, 28,
32 - 52 (4th), 53, 54,
58, 59 - 61 all, 63, 64



Aug 18-2:52 PM

Aug 18-2:52 PM





Aug 18-2:52 PM Aug 18-2:52 PM

2

3-2.notebook October 28, 2013



Aug 18-2:52 PM