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Name: _____Period: _____

Systems of Linear Equations

Directions: Solve for each system by using either elimination or substitution.

1. $-2x + 17y = 11$
 $4x - 15y = 25$

2. $3x + y = 25$
 $x + y = 18$

3. $2x + y = 15$
 $3x - 2y = 18$

4. $4x + 3y = 32$
 $2x - 7y = 18$

Using Elimination/Addition to Solve Systems of Equations Activity

Use elimination/addition to solve the systems of equations listed below. Be sure to show the steps you used to solve each system of equations.

$4x + 2y = 8$
 $5x - 3y = 4$

$x + 2y = 3$
 $-x + y = -2$

$x + 4y = 7$
 $2x - 4y = -3$

$2x + 5y = 6$
 $-x + 2y = 3$

$-2x + 3y = 7$
 $2x - 5y = -3$

$2x - 3y = -2$
 $3x + 3y = 4$

L3.1 The symbolic solution of $y' = -2xy$, $y(0) = 2$ is $y = 2e^{-x^2}$. Derive it and display a full answer check.

Solution

$y' + 2xy = 0$

$\frac{(Wy)'}{W} = 0$

$(Wy)' = 0$

$Wy = c$

$y = c e^{-x^2}$

$2 = c e^0$

$y = 2e^{-x^2}$

std form $y' + py = r$

$W = \text{integrating factor } e^{\int p dx}$

$W = e^{x^2}$

quadrature

$1/W = e^{-x^2}$

use $y(0) = 2$

candidate solution

Answer check.

$LHS = y'$
 $= (2e^{-x^2})'$
 $= 2(-2x)e^{-x^2}$
 $= (-2x)2e^{-x^2}$
 $= (-2x)y$
 $= RHS$

$LHS = y(0)$
 $= 2e^{-x^2} \big|_{x=0}$
 $= 2e^0$
 $= 2$
 $= RHS$

use $(e^u)' = u'e^u$

DE verified

Ic verified

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Solving Systems by Elimination

Practice Worksheet A

Practice Problems

Solve each system by using the Elimination Method.

1. $3x + y = 7$
 $2x + y = 2$

2. $x + 3y = 3$
 $x + 3y = 4$

3. $x + y = 4$
 $2x - 3y = 18$

4. $2x + 3y = 2$
 $2x + y = 2$

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10/20/2019 10:00 AM

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