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Equations with infinite solutions worksheet

1 Solution	Infinite Solutions	No Solution
$x + 3 = 2x - 18$	$x = x$	$x + 3 = x - 5$
$-x - x$	Every possible number makes this equation true. There are infinite solutions.	$-x - x$
$3 = x - 18$		
$+18 + 18$		$3 = -5$
$21 = x$	$2x + 6 = 2(x + 3)$	This is never true. There is no number x can be to make the equation true, so there is no solution.
$x = 21$	$2x + 6 = 2x + 6$	
	$-2x - 2x$	
Check	$6 = 6$	
$21 + 3 = 2 \cdot 21 - 18$	This is always true. There are infinite solutions.	$2x + 6 = 2(x - 5)$
$24 = 42 - 18$		$2x + 6 = 2x - 10$
True		$-2x - 2x$
		$6 = -10$
21 is the only number x can equal that makes the equation true. There is exactly 1 solution.		False No Solution



	Name _____	Period _____
Solving Systems of Equations by Graphing		
Draw the following systems of equations by graphing. Write down each equation, record the solution (the point of intersection) of the system, and label the solution on the graph. Write down the equations and the solution of the system on the back of your answer sheet.		
1. $y = 2x + 1$ $y = 3x - 2$	2. $y = 2x + 1$ $y = 3x - 2$	3. $y = 2x + 1$ $y = 3x - 2$
4. $y = 2x + 1$ $y = 3x - 2$	5. $y = 2x + 1$ $y = 3x - 2$	6. $y = 2x + 1$ $y = 3x - 2$
7. $y = 2x + 1$ $y = 3x - 2$	8. $y = 2x + 1$ $y = 3x - 2$	9. $y = 2x + 1$ $y = 3x - 2$
10. $y = 2x + 1$ $y = 3x - 2$	11. $y = 2x + 1$ $y = 3x - 2$	12. $y = 2x + 1$ $y = 3x - 2$
13. $y = 2x + 1$ $y = 3x - 2$	14. $y = 2x + 1$ $y = 3x - 2$	15. $y = 2x + 1$ $y = 3x - 2$
16. $y = 2x + 1$ $y = 3x - 2$	17. $y = 2x + 1$ $y = 3x - 2$	18. $y = 2x + 1$ $y = 3x - 2$
19. $y = 2x + 1$ $y = 3x - 2$	20. $y = 2x + 1$ $y = 3x - 2$	21. $y = 2x + 1$ $y = 3x - 2$
22. $y = 2x + 1$ $y = 3x - 2$	23. $y = 2x + 1$ $y = 3x - 2$	24. $y = 2x + 1$ $y = 3x - 2$
25. $y = 2x + 1$ $y = 3x - 2$	26. $y = 2x + 1$ $y = 3x - 2$	27. $y = 2x + 1$ $y = 3x - 2$
28. $y = 2x + 1$ $y = 3x - 2$	29. $y = 2x + 1$ $y = 3x - 2$	30. $y = 2x + 1$ $y = 3x - 2$
31. $y = 2x + 1$ $y = 3x - 2$	32. $y = 2x + 1$ $y = 3x - 2$	33. $y = 2x + 1$ $y = 3x - 2$
34. $y = 2x + 1$ $y = 3x - 2$	35. $y = 2x + 1$ $y = 3x - 2$	36. $y = 2x + 1$ $y = 3x - 2$
37. $y = 2x + 1$ $y = 3x - 2$	38. $y = 2x + 1$ $y = 3x - 2$	39. $y = 2x + 1$ $y = 3x - 2$
40. $y = 2x + 1$ $y = 3x - 2$	41. $y = 2x + 1$ $y = 3x - 2$	42. $y = 2x + 1$ $y = 3x - 2$
43. $y = 2x + 1$ $y = 3x - 2$	44. $y = 2x + 1$ $y = 3x - 2$	45. $y = 2x + 1$ $y = 3x - 2$
46. $y = 2x + 1$ $y = 3x - 2$	47. $y = 2x + 1$ $y = 3x - 2$	48. $y = 2x + 1$ $y = 3x - 2$
49. $y = 2x + 1$ $y = 3x - 2$	50. $y = 2x + 1$ $y = 3x - 2$	51. $y = 2x + 1$ $y = 3x - 2$
52. $y = 2x + 1$ $y = 3x - 2$	53. $y = 2x + 1$ $y = 3x - 2$	54. $y = 2x + 1$ $y = 3x - 2$
55. $y = 2x + 1$ $y = 3x - 2$	56. $y = 2x + 1$ $y = 3x - 2$	57. $y = 2x + 1$ $y = 3x - 2$
58. $y = 2x + 1$ $y = 3x - 2$	59. $y = 2x + 1$ $y = 3x - 2$	60. $y = 2x + 1$ $y = 3x - 2$
61. $y = 2x + 1$ $y = 3x - 2$	62. $y = 2x + 1$ $y = 3x - 2$	63. $y = 2x + 1$ $y = 3x - 2$
64. $y = 2x + 1$ $y = 3x - 2$	65. $y = 2x + 1$ $y = 3x - 2$	66. $y = 2x + 1$ $y = 3x - 2$
67. $y = 2x + 1$ $y = 3x - 2$	68. $y = 2x + 1$ $y = 3x - 2$	69. $y = 2x + 1$ $y = 3x - 2$
70. $y = 2x + 1$ $y = 3x - 2$	71. $y = 2x + 1$ $y = 3x - 2$	72. $y = 2x + 1$ $y = 3x - 2$
73. $y = 2x + 1$ $y = 3x - 2$	74. $y = 2x + 1$ $y = 3x - 2$	75. $y = 2x + 1$ $y = 3x - 2$
76. $y = 2x + 1$ $y = 3x - 2$	77. $y = 2x + 1$ $y = 3x - 2$	78. $y = 2x + 1$ $y = 3x - 2$
79. $y = 2x + 1$ $y = 3x - 2$	80. $y = 2x + 1$ $y = 3x - 2$	81. $y = 2x + 1$ $y = 3x - 2$
82. $y = 2x + 1$ $y = 3x - 2$	83. $y = 2x + 1$ $y = 3x - 2$	84. $y = 2x + 1$ $y = 3x - 2$
85. $y = 2x + 1$ $y = 3x - 2$	86. $y = 2x + 1$ $y = 3x - 2$	87. $y = 2x + 1$ $y = 3x - 2$
88. $y = 2x + 1$ $y = 3x - 2$	89. $y = 2x + 1$ $y = 3x - 2$	90. $y = 2x + 1$ $y = 3x - 2$
91. $y = 2x + 1$ $y = 3x - 2$	92. $y = 2x + 1$ $y = 3x - 2$	93. $y = 2x + 1$ $y = 3x - 2$
94. $y = 2x + 1$ $y = 3x - 2$	95. $y = 2x + 1$ $y = 3x - 2$	96. $y = 2x + 1$ $y = 3x - 2$
97. $y = 2x + 1$ $y = 3x - 2$	98. $y = 2x + 1$ $y = 3x - 2$	99. $y = 2x + 1$ $y = 3x - 2$
100. $y = 2x + 1$ $y = 3x - 2$	101. $y = 2x + 1$ $y = 3x - 2$	102. $y = 2x + 1$ $y = 3x - 2$
103. $y = 2x + 1$ $y = 3x - 2$	104. $y = 2x + 1$ $y = 3x - 2$	105. y

[illegible]

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

$$y' + 2xy = 0$$
$$\frac{(Wy)'}{W} = 0$$
$$(Wy)' = 0$$
$$Wy = c$$
$$y = c \bar{e}^{x^2}$$
$$2 = c e^0$$
$$\boxed{y = 2 \bar{e}^{-x^2}}$$

std form $y' + py = r$

$W =$ integrating factor $e^{\int p dx}$
 $W = e^{x^2}$

Quadrature
 $1/W = \bar{e}^{-x^2}$
use $y(0) = 2$
candidate solution

Answer check.

$$\begin{aligned} \text{LHS} &= y' \\ &= (2e^{-x^2})' \\ &= 2(-2x)e^{-x^2} \\ &= (-2x)2\bar{e}^{-x^2} \\ &= (-2x)y \\ &= \text{RHS} \end{aligned}$$

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

DE verified

$$\begin{aligned} \text{LHS} &= y(0) \\ &= 2\bar{e}^{-x^2} \big|_{x=0} \\ &= 2e^0 \\ &= 2 \\ &= \text{RHS} \end{aligned}$$

IC verified

$4x + 2y - 2z = 10$
 $2x + 8y + 4z = 32$
 $30x + 12y - 4z = 24$

Multiply equation 2 by 5 so we can eliminate Z
 $2 \cdot (4x + 2y - 2z) = 2 \cdot 10$

$8x + 4y - 4z = 20$

1) Pair equations to eliminate Z
 $8x + 4y - 4z = 20$ $2x + 8y + 4z = 32$
 $\frac{2x + 8y + 4z = 32}{10x + x = 52} = 52$ $\frac{30x + 12y - 4z = 24}{32x + 20y = 56}$

2) Solve new system
 $32 \cdot 10x + 12y = 52$
 $10 \cdot 32x + 20y = 56$
 $320x + 384y = 1664$
 $- (320x + 20y = 560)$
 $184y = 1104$
 $y = 6$

Substitute Y
 $10x + 12y = 52$
 $10x + 12(6) = 52$
 $x = -2$

Substitute x and y to find Z
 $8x + 4y - 4z = 20$
 $8(-2) + 4(6) - 4z = 20$
 $-16 - 24 - 4z = 20$
 $-40 - 4z = 20$
 $-4z = 60$
 $z = -15$

Solution is $(-2, 6, -15)$

Equations with no solution and infinite solutions worksheet. Solving equations with infinite or no solutions worksheet answers. Equations with infinite and no solutions worksheet answers. Multi step equations with infinite solutions worksheet. Solving equations with one none or infinite solutions worksheet.

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