MAT 050 Practice Test Chapter 3

All test answers are to be in simplest form. A calculator may be used. Cell phones, iPads, and other electronic devices with scanning or photo ability may NOT be used. No notes, no books, no homework may be used while taking this test.

The test will include several fill in the blank questions covering voculary from the list below.

	addition property of equality algebraic expression coefficient multiplication property of equality	exponent like terms linear equation in on	solution term e variable unlike terms variable		
Simplify the expression.		Translate the phrase to an algebraic expression. Use n for the variable unless otherwise stated			
1)	$-5y^{2} + 9y^{2}$	15)	five decreased by some number		
2)	7b - 3b + 4	16)	eleven less than a number		
3)	-25p - 8 + 22p - 14	17)	negative seven plus the product of nine and some number		
4)	(m ² + 6) + (m ² - 4m)	18)	negative six multiplied by the difference		
5)	(9x + 11) + (-6x + 8)		or some number and ten		
6)	(-9x - 11) - (16x + 17)	Translate the sentence to an equation using x as the variable. Do not solve the equation.			
7)		19)	A number increased by three is negative twelve.		
/)	(9y - 3) - (4y - 8)	20)	Dividing 24 by a number is 8.		
8)	-7h - (1 - 9h)				
9)	8(5y)	21)	The product of negative two and a number is thirty-six.		
10)	-7(-9m)	Determine if Show work t	Determine if the given value is a solution to the equation. Show work to support your answer.		
11)	-8(7m - 4)	22)	Is 7 a solution for: $9 + 8x = 61$?		
,		23)	Is 4 a solution for: $8x + 8 = 3x + 28$?		
12)	6(w - 4) + 10	24)			
13)	2 + 4(8t + 6)	24)	Is 30 a solution for: $5(y + 6) = 7y + 30$		
14)	4 - 5(3w - 5) + w				

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Solve each linear equation.		Answer the four parts for the given worded problem.			
25)	f + 20 = -12	36)	The BBQ committee always orders one pound of ribs for each person who signs		
26)	-24 = 25 + a		up for the Homecoming BBQ, plus 10 extra pounds of ribs. If the committee ordered 105 pounds of ribs this year find		
27)	11x = 10x + 17		the number of people who signed up for the BBQ.		
28)	-3t = -4t - 10		a)	Identify in words what you are solving for in this problem.	
29)	14 = -7k		b)	Choose a variable and identify	
30)	-8x = -40			what the variable represents.	
31)	$\frac{p}{-2} = -10$		c)	Translate the worded problem into an equation using your variable and solve the equation.	
32)	-9w - 11 + 10w = -2 + 8		d)	State the solution to the problem	
33)	29(x - 116) = 58		u)	and label the answer.	
34)	-5(p + 2) = -p - 11 - 3p	37)	A tree 7 feet high grows at the rate of 3		
35)	-3(2p + 13) - 26 = -2(p + 14) + 11		take fo	r the tree to grow to a height	

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Identify in words what you are

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Translate the worded problem

State the solution to the problem

into an equation using your variable and solve the equation.

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a)

b)

c)

d)