3.8 Solving First-Degree Equations – More Practice

Class Notes – Classify each equation as a single-step first-degree equation, multi-step first-degree equation, or not a first-degree equation. Then solve each first-degree equation and check. If you do not solve an equation, explain why.

equation and check. If you do not solve an equation, explain why.				
LP#1	3(m+10) = -24	4w + 4 = 32		
x + 10 = 6				
LP#2	$1 + 7m^2 - m = 10$	-6b = 72		
-4y + 20 = 56 + 2y	11.7711 111 - 10	50 - 12		
T 77 (10)	15 22			
LP#3	15 - y = 32	10 = 2(m - 15)		
$55 = \frac{d}{8}$				
$\int_{0}^{2} J = \frac{1}{8}$				

T-70//	T	
LP#4	-4(k+11) = 48	20 = 5x + 10
$36 = 4n^2$		
LP#5	5(3c-2)-24=16	22 10
LF#3	3(3c-2)-24=10	22 = x - 18
4g - 2(g - 2) = 12		

Review – Solve each first-degree equation as single-step or multi-step. Solve and check.

R#1	5x = 20	4x - 7 = -31
10 + x = 8		

R#2 $2x + 1 = 17$	3 = -x + 3x + 7	4 + 6x - 7x = -6
R#3 $x + 8 = -47 - 4x$	-7x + 1 = -87 + 4x	-5(-9-7x) = 185

Homework -

Solve each first-degree equation and check. If you do not solve an equation, explain.

1)
$$x + 3 = 15$$

2)
$$-5x + 7 = 12$$

3)
$$3x + 8 = 20$$

4)
$$-9 + 6x + 5x = 24$$

5)
$$-5 = -4x + 7x - 5$$

6)
$$5x + 9 + x = -63$$

7)
$$6 + 6x + x = 27$$

8)
$$-6x + 7 = -84 + 7x$$

9)
$$3x + 9 = 4x + 16$$

10)
$$6x + 4 = 3 + 5x$$

11)
$$7x + 8 = 18 - 3x$$

12)
$$5x - 4 = 2x - 28$$

13)
$$3(2x - 3) = 63$$

14)
$$2(8 + 7x) = 72$$

15)
$$3(5x - 10) = -150$$

16)
$$-4(10 + 2x) = -136$$

17)
$$-7x = -49$$

18)
$$2 + 7x = 37$$

19)
$$-1 + 2x = -23$$

20)
$$-27 = -4x - 5x + 9$$

21)
$$8 - 4x - x = 18$$

22)
$$7x + 4 + 2x = 13$$

$$23) -4x + 7 + 5x = 12$$

24)
$$6x + 9 = 9 + 5x$$

Synthesis

TBA