3.6 Solving First-Degree Equations Involving Multiple Steps – Part 2

Reviewing the Distributive Property

State whether the following statements are true or false. If false, correct the statement.

LP#1 3(x + 4) = 3x + 12	6(y + 7) = 6y +7	4(n + 2) = 4n +8
LP#2 -3(x + 5) = -3x + 15	-6(w – 9) = -6w + 54	-5(m + 9) = -5m – 9
LP#3 (y – 3)(-4) = -4y +12	(a – 7)(6) = y – 42	(a + b)(5) = 5a + 5b
LP#4 -5(y+1) = -5 – 5	3(x + 4) = 3x + 12	-2(y + 5) = -2y – 10

Complete the rule below.

Let a, b, and c represent real numbers,

$$a(b+c) =$$

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

LP#5 $2(x+3) = -16$	$28 = 4(m+5)$	$120 = 15(w-2)$

LP#6 $8(y-1)=64$	$-4(p-9)=-48$	$14(4-d)=-168$
LP#7 $6=-3(x-1)$	$2(p-20)=8$	$4=4(b-2)$

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

R#1 $5(6x-7)=-35$	$4(1-5x)=-56$	$-4(1-6x)=164$

R#2 $5(x-1)=20$	$6(10+x)=132$	$-6(7x+10)=-144$
R#3 $-2(6x+9)=-150$	$3(3+6x)=225$	$-6(1+4x)=90$

Homework –

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

1) $-5(-5-x)=-45$ **2)** $4(10+2x)=64$ **3)** $-7(4-x)=7$ **4)** $7(4x-4)=140$

5) $3(2x+8)=60$ **6)** $-6(x-6)=36$ **7)** $7(-3x+10)=196$ **8)** $-3(x-2)=33$

9) $4(x+4)=-16$ **10)** $4(3+2x)=76$ **11)** $6(4x-2)=156$ **12)** $6(x+3)=30$

13) $7(1+x)=21$ **14)** $3(2x-10)=-90$ **15)** $7(4x+7)=357$ **16)** $7(-6x-6)=84$

Synthesis

TBA