

PRACTICE		
a. $5(x+4) = 3x + 14$	b. $5q - 6 = 2(q + 3)$	c. $4t + 3(2 - t) = 13$
5x+20 = 3x + 14	5q - 6 = 2q + 6	4++6-3+=13
$d_{x+22} = 14$	3q - 6 = 6	4 + 4 = 13
-20 -20	20 - 12	
$\frac{4x}{2} = \frac{1}{2}$	J J J J J J J J J J J J J J J J J J J	<b>6</b> =7
d. $u = 3(5 - u) + 1$	e. $3(r+4) + 2(r+5) = 32$	f. $5(y-3) - 3(y-4) = 12$
u = 15 - 3u + 1	3r + 12 + 2r + 10 = 32	5y - 15 - 3y + 12 = 15
4 = 16 - 34 + 3u + 3u	5r+22=32	5y - 3y - 15 + 12 = 15
lm = l =	5r = 10	$27 + \frac{3}{2} = \frac{15}{43}$
4 4	5 5	2y = 18
(u=4)	r=2	2 2
$\frac{1}{2}$ $\frac{1}$	$h_{2}(y - 4) = 3(y + 2) + 8$	$\frac{1}{1} = \frac{1}{10} $
9.4(7+3) = 2(7+3) = 8	11.2(y-4) = -5(y+2) + 8	1.0(3w + 4) = 10(2w - 1)
4x + 12 = 2x + 4	2y - i = 3y - i + i	$-18\omega$ $-18\omega$ from LS
-2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -	29 - 8 = -39 + 2	$2y = 2\omega - 10$
2v + 12 = 4		
	59-8 = <del>2</del> +8 = <del>1</del> 8	$\frac{39}{2} = \frac{200}{2}$
$\frac{1}{2} = \frac{1}{2}$	5y = b	17 = 00
v = -4	5 5	w =17
j. $4(m + 3) + 2(m - 3) = 3(m - 2)$	k. p $-(4p + 3) = -3$	p(p+2) - 1(2p+3)
4m+12+2m-6=3m-6	p - 4p - 3 = -3	bp - 6 - 2p - 3
bm + 6 = 3m - 6	-3p-3=-3	5 - 9
-5m $-5m3m+66$		
-6 - 6	2p - 3 = +	3
$\frac{3m}{2} = \frac{-12}{2}$	$\frac{2p}{2} = -\frac{k}{2}$	
m4	$\sqrt{P = -3}$	7
1. 3 solved the following equation. he is incorrect. Circle two mistakes and explain why he is incorrect.		
3(x+5)-(x+4)=3 Error #1: Bilbo applied the distributed law incorrectly. He had to		
3x + 5 - x + 4 = 3	3x + 5 - x + 4  = 3 multiply 5 by 3 as well.	
3x - x + 5 + 4 = 3	3(x+5) = 3x + 15	
2x+9=3 Error #2: When we subtract a polynomial, we add the opposite.		
3+9+9 +9		
-(x+y) = -x - y		
2 ÷ 2 Error #3: Bilbo tried to eliminate t9 by adding 7. The was		
	2x+9=3	
x = 0	-9 -9	
ANSWERS: a) $x=-3$ , b) $q=4$ , c) $t=7$ , d) $u=4$ , e) $r=2$ , f) $y=7.5$ , g) $v=-4$ , h) $y=2$ , i) $w=17$ , j) $m=-4$ , k) $p=-2$ , l) $2^{nd}$ line: just dropped the brackets for both polynomials.		

ANSWERS: a) x=-3, b) q=4, c) t=7, d) u=4, e) r=2, f) y=7.5, g) v=-4, h) y=2, i) w=17, j) m=-4, k) p=-2, l)  $2^{nd}$  line: just dropped the brackets for both pol Should have 3x+15 - x - 4, AND  $5^{th}$  line + 9 (should have subtracted 9).