6.1 Worksheet #1 *Math 9* Name:_____

Part 1 – Show all work on this worksheet if possible – attach extra paper if needed.

Solve for x

1. $x+20=50$
6. $x+14=-12$
11. $-5x=100$
16. $\frac{5}{6}x=10$
21. $21=-x+4$
3. $21=x-3$
8. $-3=x+100$
13. $\frac{x}{11}=3$
18. $\frac{3}{x}=\frac{12}{5}$
23. $\frac{-x}{4}=-22$

Part 2

Solve for the variable. Show your work.

1. $x+8=11$
14. $15=b-15$
27. $6u=10$
40. $\frac{a}{-10}=4$
3. $a-9=1$
16. $2x=100$
29. $35=15m$
42. $\frac{5}{6}=\frac{h}{-24}$
4. $4=t+5$
17. $12=6g$
30. $-6t=15$
43. $\frac{2}{3}y=6$

Part 3

Solve for the variable. Show your work.

1. $3t+9=27$
13. $19=-5-8m$
25. $14=3u-u$
37. $3x+15+5x=15$
3. $6k-27=3$
15. $8m-3=9$
27. $3=1+6c$
39. $22=-4x-4$

Part 4

Solve for the variable. Show your work.

1. $3(x-2)=24$
7. $5r-(4r+3)=7$
2. $4(3b-5)=28$
8. $3-(6u-7)=4u-2$

6.1 Worksheet #2 *Math 9* Name:_____

Part 1 – Show all work on this worksheet if possible – attach extra paper if needed.

Solve for the variable

1. $3y+15=40$
3. $16-5u=26$
4. $-9+7r=-26$
6. $2a+9-4a=20$
7. $31=80-24f$
9. $33=7p+16$
10. $15n-7+2n-41=1$
12. $25=10k$

Part 2

Solve for the variable. Show your work.

9. $10=6b-5$
11. $-20=40+5n$
12. $87=15+6c$
21. $-6=3m+2m+m$
23. $5a-1=4-8$
24. $3y-2y+y=5-11$
33. $12b+14-3b=16$
35. $-13=2n-2+9n$
36. $24=a+3a+6-2a$
45. $8=-12b-6+4b$
47. $3=5t-11+14$
48. $-4r+2=-7+9$

Part 3

Solve for the variable. Show your work.

13. $5(2+3b)=15-(b-7)$
15. $5(3a+1)-3(a-7)=16+7a$
17. $91-5(p+20)=48-8(p+3)$
18. $7v-4(v-9)=4(5v+9)$
32. $2(5c-1)-3(c-7)-6=-8$
34. $14x-(4x+12)-11x-(3-4x)=0$
36. $q+7-2(q-2)=3(2q+1)+5q$
37. $6(a-2)-(a-5)-3(a+9)=0$

6.1 Worksheet #3 *Math 9* Name:_____

Part 1 – Show all work on this worksheet if possible – attach extra paper if needed.

Solve for the variable.

26. $-4f+4=10-(2f-6)$

28. $5q-5-(q-4)=5$

30. $u-5=-18-(5u+3)$

45. $2[x+3(x-1)]=7x-1$

47. $2x-4[6x-4(x+1)]=2(3x+5)$

49. $3x-2\{5-4[2x-(1-x)]\}=36$

17. $\frac{d}{3}+\frac{3d}{4}=1$

19. $\frac{1}{2}x=\frac{1}{3}x+5$

21. $\frac{1}{2}y-3=4+\frac{2}{3}y$

38. $\frac{d+5}{6}-\frac{d+3}{4}=\frac{d-1}{9}$

40. $\frac{2x+4}{5}+\frac{6-7x}{15}=2$

42. $\frac{p-3}{4}-\frac{3p-5}{8}=\frac{2p-4}{5}$

43. $6-\frac{a-1}{2}-\frac{3-a}{4}=\frac{a-2}{3}$

59. $\frac{5}{6}(4-2x)-\frac{7}{8}(4-x)=-x-1$

Part 2

Solve for the variable that is bolded.

8. $h = \frac{\boldsymbol{a}}{w}$

10. $b + x = a$

12. $-b + x = h$

21. $p = 2a + 2\boldsymbol{b}$

23. $3x + 2a = 8a$

25. $4x + 6a = -6a$

34. $3(x - 4c) - 6c = 0$

36. $3x - 10d = 4(d - x)$

38. $t = a + d(n - 1)$