

Name: _____ Date: _____ Per: _____

Solving Equations with Variables on Each Side

3.4 Practice 1

Solve each equation, then check your solution.

1. $4k - 3 = 2k + 5$

2. $2(8u + 2) = 3(2u - 7)$

3. $2m + 12 = 3m - 31$

4. $2h - 8 = h + 17$

5. $7a - 3 = 3 - 2a$

6. $4n - 12 = 12 - 4n$

7. $4x - 9 = 7x + 12$

8. $-6y - 3 = 3 - 6y$

9. $5 + 3r = 5r - 19$

10. $-9 + 8k = 7 + 4k$

11. $8q + 12 = 4(3 + 2q)$

12. $3(8 - 3t) = 5(2 + t)$

3.4 Practice 1

13. $6(-3v + 1) = 5(-2v - 2)$

14. $-7(2b - 4) = 5(-2b + 6)$

15. $2(3u + 7) = -4(3 - 2u)$

16. $8(2f - 2) = 7(3f + 2)$

17. $5(-6 - 3d) = 3(8 + 7d)$

18. $6(w - 1) = 3(3w + 5)$

19. $7(-3y + 2) = 8(3y - 2)$

20. $\frac{2}{3}v - 6 = 6 - \frac{2}{3}v$

21. $3(5j + 2) = 2(3j - 6)$

22. $\frac{1}{2} - \frac{5}{8}x = \frac{7}{8}x + \frac{7}{2}$