

Math 1 – Assignment #9.4A – Introduction to 2-Column Proofs

Practice writing 2-column proofs by solving each equation **and** writing a reason for each step.

1. $14x + 3(7 - x) = -1$

5. $3(2x + 11) = 9$

2. $5x - 10 = -40$

6. $2(-x - 5) = 12$

3. $4x + 9 = 16 - 3x$

7. $44 - 2(3x + 4) = -18$

4. $5(3x - 20) = -10$

8. $4(5x - 9) = -2(x + 7)$

$$9. 2x - 15 - x = 21 + 10x$$

$$10. 3(7x - 9) - 19x = -15$$

Write 2-column proofs by solving each equation for y **and** writing a reason for each step.

$$11. 5x + y = 18$$

$$14. 3x + 9y = -7$$

$$12. -4x + 2y = 8$$

$$15. 2y + .5x = 16$$

$$13. 12 - 3y = 30x$$

$$16. \frac{1}{2}x - \frac{3}{4}y = -2$$