

MATH 0471 – LINEAR EQUATIONS

Instructions: Solve each of the following equations

1. $9 + 5a = -2$

2. $-4a - 8 = -3a + 7$

3. $2x + 7 - 3x + 4 = -2x$

4. $8x - 1 + 3x + 5 = 7x + 3 - 4x + 5$

5. $3 - 5(2m - 5) = -2$

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

7. $20 = 8 - 5(2x - 3) + 4x$

8. $\frac{1}{2}x + \frac{1}{4} = \frac{1}{3}x + \frac{5}{4}$

9. $\frac{1}{2}y - \frac{2}{7} = \frac{1}{7}y + \frac{11}{14}$

10. $\frac{3}{5}(5x + 10) = \frac{5}{6}(12x - 18)$

Solve each of the following equations for x

11. $ax - 5 = cx - 2$

12. $ax + b = cx + d$

13. $7x - 6y - 5 = 0$

14. $A = x + xrt$

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1. $a = -\frac{11}{5}$	2. $a = -15$	3. $x = -11$
4. $x = \frac{1}{2}$	5. $m = 3$	6. $x = 0$
7. $x = \frac{1}{2}$	8. $x = 6$	9. $y = \frac{13}{5}$
10. $x = 3$	11. $x = \frac{3}{a-c}$	12. $x = \frac{d-b}{a-c}$
13. $x = \frac{6y+5}{7}$	14. $x = \frac{A}{1+rt}$	15.

