

1.1 Mon., Mar. 18: Simplification

We often need to rearrange algebraic expressions to solve for x .

Exercise 1. $2x = 8$

Exercise 2. $\frac{x}{3} = 3$

Exercise 3. $3x + 1 = 4$

Exercise 4. $\frac{3}{2}x - 1 = x + 6$

Exercise 5. $x - 3 = \frac{1}{2}$

Exercise 6. $\frac{1}{2}x = (6 + 1)^{\frac{1}{7}}$

Exercise 7. $x - 18 = (3 \cdot 3)2 - 1$

Exercise 8. $x + x = \frac{28}{4}$

Exercise 9. $2a = (a - 4)$

Exercise 10. $\frac{7}{x} = 14$

Exercise 11. $\frac{x-3}{2x} = 2$

Exercise 12. $\frac{118}{2} = \frac{x}{6}$