

1.3 Practice B

In Exercises 1–8, solve the equation. Check your solution.

1. $5t + 7 = 3t - 9$

2. $-8u + 3 = 2u - 17$

3. $6w + 3 - 10w = 7w - 8$

4. $-a + 4a - 9 = 8a + 6$

5. $9(k - 2) = 3(k + 4)$

6. $-2(x - 4) = 7(x - 4)$

7. $\frac{2}{3}(3 - 6x) = -3(8x - 4)$

8. $8(3g + 2) - 3g = 3(5g - 4) - 2$

In Exercises 9–12, solve the equation. Determine whether the equation has *one solution*, *no solution*, or *infinitely many solutions*.

9. $5(2f + 3) = 2(5f - 1)$

10. $\frac{1}{3}(12 - 24v) = -2(4v - 2)$

11. $3(k + 1) + 11k = 2(4 + 5k) + 3$

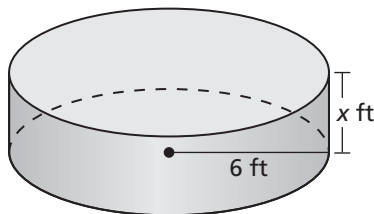
12. $-4(-m + 2) + 2m = -\frac{1}{2}(10 - 12m) - 3$

13. Using the information in the table, write and solve an equation to find the number of toppings when you would pay the same amount for Pizza A and Pizza B.

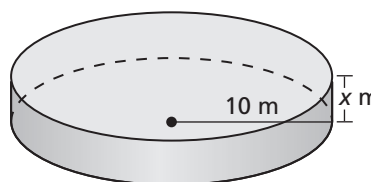
	Cheese pizza	Price per topping
Pizza A	\$10	\$1.50
Pizza B	\$12.50	\$1.00

In Exercises 14 and 15, the value of the surface area of the cylinder is equal to the value of the volume of the cylinder. Find the value of x . Then find the surface area and volume of the cylinder.

14.



15.



16. Four times the greater of two consecutive integers is 18 more than three times the lesser integer. What are the integers?