

Section 2.1 – Variables

Problem Set 2

Write a mathematical expression for each statement using variables where they're appropriate.

1. take 5 times the number then subtract 9
2. the sum of 4 times one number plus 5 times a second number
3. 11 less than a number
4. 12 more than 2 times a number
5. the sum of 9 and some number
6. 12.4 plus one third of a number
7. a number divided by the sum of a number and 4

If $x = -2$ then simplify each of the following expressions.

8. $x/3 - x$ 9. $2x - 13$ 10. $x + 6$ 11. $(x + 5)/(x - 5)$

If x can be any of $\{-3, -1, 0\}$ then find all the possible values of the following expressions.

12. $2x + 6$ 13. $3x / 1$ 14. $4x - 2$ 15. $(x + 4)/(x + 3)$

If $x = -1$ and $y = 1$ then simplify the following expressions.

16. $(4x + 6)/(y + 2)$ 17. $x + y / 16$ 18. $x - 2y$ 19. $(x + y - 4)/x$