

Identify each part of the algebraic expression as the coefficient, constant, or variable.

1.) $-12 + 4x$

coefficient: _____

variable: _____

constant: _____

2.) $a + 3b - 8$

coefficient: _____

variable: _____

constant: _____

3.) $6y$

coefficient: _____

variable: _____

constant: _____

Simplify each expression and write your answer in STANDARD FORM. MUST SHOW WORK!

4.) $4(x + 7)$

5.) $2(3x - 9)$

6.) $-\frac{1}{3}(6h + 15)$

7.) $7 + 2(4x - 3)$

8.) $-5d + 3(2d - 7)$

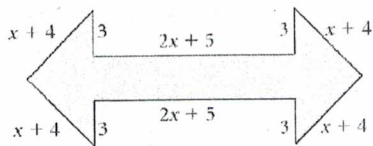
9.) $9 - 4t + 6y - 3t + 10$

10.) $2(m^2 + 3) - 2(4m^2 - 5) + 2$

11.) $7pq^2 + 8pq - 4pq - 9p^2q + pq^2$

12.) $2x + \frac{1}{4}(4x + 16) + 3 - x$

13.) Find the perimeter of the figure below:



14.) Find the error: A student rewrote $4(3x + 10)$ as $12x + 10$. Explain the student's error.