

Properties of Real Numbers Assignment

Simplify the following expressions.

- 1) $(2x - 3y + 4z) + (9x - 8y + 7z)$
- 2) $(5m + 2n - 6) - (3m - 2n + 4)$
- 3) Subtract the quantity $12a^2 - 8a + 4$ from the quantity $12 - 7a^2$
- 4) $12\left(\frac{1}{3}x - \frac{1}{4}y\right) - \left(\frac{2}{5}x + \frac{1}{2}y\right) + 6\left(\frac{3}{10}x - \frac{2}{3}y\right)$
- 5) $(3m^2 + 9mn + 3n^2) - 6(2n^2 - 5m^2) + 2(12m^2 + 9mn - 3n^2)$
- 6) $(7.4a - 2.3b + c) + 10(2.6a - 2.3b + 4.5c) - 3(a + b + c)$
- 7) Subtract four times the quantity $2x + 5$ from three times the quantity $7x - 8$
- 8) Multiply the quantity $2x^2 - 8xy + 5y^3$ by (-5) and add that product to the quantity $7x^2 - 8xy + 3y^2$
- 9) Subtract the quantity $10x + 5y - 4z$ from the sum of the quantities $7z + 3y - 10x$ and $9x - 12y - z$
- 10) Subtract six times the quantity $3a + 12b - 4c$ from eight times the sum of the quantities $14a + 7c$ and $5b - 12c$

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Write an algebraic expression to the given verbal expression

- 1) the product of twice a and b

- 2) twice the product of a and b

- 3) two less than five times a number

- 4) twice a number increased by three times the number

- 5) the sum of 3 times a and b

- 6) three times the sum of a and b

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