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~~Homework Answers~~

For problems 1 and 2, identify the terms, coefficients, constants, and factors of the given expressions.

1. $29x + 3y - 5$ terms $29x, 3y, -5$

coefficients $29, 3$

constants -5

factors $29, x$ and $3, y$

2. $4px + 108$ terms $4px, 108$

coefficients 4

constants 108

factors $4, p, x$

4. Deiondre bought 15 pizzas from Hungry Howie's and received a 30% discount. The delivery tip was \$14. Write an algebraic expression to represent the total cost.

Algebraic Expression: $15x - .30(15x) + 14$

Terms: $15x, -.30(15x), 14$

Factors: $15, x$ and $-.30, 15, x$

Coefficients: 15 and $-.30(15)$

Constants: 14

For problems 5 and 6, translate each verbal expression to an algebraic expression. Then, identify the terms, coefficients, and constants of the given expressions.

5. One-third the product of the radius r and the height h plus twice the sum of r and h .

Algebraic Expression: $(1/3)rh + 2(r + h)$

Terms: $(1/3)rh$, $2(r + h)$

Factors: $1/3$, r , h and 2 , $(r + h)$

Coefficients: $1/3$, 2

Constants: none

6. The sum of 100 and the square of w decreased by the product of 13 and z.

Algebraic Expression: $100 + w^2 - 13z$

Terms: $100, w^2, -13z$

Factors: -13 and z .

Coefficients: 1 and -13

Constants: 100

