

Course: PreAlgebra

Document:

LIVE Stream 1

Topic: Semester A Exam Review: Part 1

Reference Number:

1849-4

Subtopic: Evaluating expressions; Evaluating absolute values; Using the order of operations

<https://youtube.com/c/MrMattTheTutor>



1) Evaluate the following expressions:

- $3X + 2Y - Z$ when $X = 5, Y = 4,$ and $Z = 8$
- $2(3X - Y) + 4Z$ when $X = 4, Y = 3,$ and $Z = 2$

2) Evaluate the following absolute values:

- $|-6 + 3|$
- $|-6 - 3|$

3) Simplify the following expressions using the order of operations:

a. $3(2 \times 5 - 4) + 6$

b. $(16 - 3^2 \times 2)^2$

4) Evaluate the following expressions:

a. $(4M - 2)3 - 5N$ when $M = 5$ and $N = 3$

b. $9M - 2M(7 - 4) + 3(4N - N)$ when $M = 3$ and $N = 2$

5) Evaluate the following absolute values:

a. $|4 - 9| - |2 - 7|$

b. $|-8 + 3| - 5$

6) Simplify the following expressions using the order of operations:

a. $(20 - 4^2)^2 - (14 - 9)^2$

b. $(3 \times 2 + 10 \times 3) - (6 \times 4 - 5 \times 3)$

7) Evaluate the following expressions:

a. $5(3A + 2B) - 2(2A - 3B)$ when $A = 3$ and $B = 4$

b. $6A - 3B + 3A + 9B$ when $A = 5$ and $B = 3$