Please review each task and use the following guiding questions to modify the task to engage students in mathematical argumentation.

- Does the task promote a mathematical discourse? A conversation that includes argumentation?
- Does the task prompt students to articulate a chain of reasoning?
- Does the task require students to write or otherwise record their chain or reasoning to show a result, answer, or other claim is true?

Task 1:

Solve each of the following:

a) $3x + 5 = 2x - 6$ b) $4x + 3 = 4x - 5$ c) $2x - 10 = 2x - 10$

Task 2:

Alexa is training to bike 100 miles. During her first week of training, she bikes 12 miles. On her fifth week she bikes 40 miles. Write an equation to represent her training progress and use it to determine on what week she will be able to bike 100 miles.

Task 3:

The coordinates of the vertices of parallelogram ABCD are A(-4, -3), B(5, 6), C(8, 3) and D(-1, -6).

Determine the slopes and lengths of the sides to verify that it is a rectangle.