

EXPERIMENT 1: Move the robot forward 4 times, 2 wheel rotations at a time. The first time make it move at a speed that is equal to the answer of the first, second time of the second and third time of the third expression. The last speed will be the sum of all the expressions. Before travelling the next distance put 1 second of pause. Write up all of the answers, since they will be necessary in the next experiments.

Expressions: $-37 - 23 + 5 + 12 =$; $-24 + 6 - 12 + 8 =$; $-12 + 11 + 4 - 9 =$

Look at the solution: https://www.youtube.com/watch?v=EDAJ1B_1XqA

Create a program that consists of:

- 1) a control two motors at once block, which is set to the Motor Rotations movement mode, 2 rotations and speed -43;
- 2) a wait block that waits for 1 second;
- 3) a control two motors at once block, which is set to the Motor Rotations movement mode, 2 rotations and speed -22;
- 4) a wait block that waits for 1 second;
- 5) a control two motors at once block, which is set to the Motor Rotations movement mode, 2 rotations and speed -6;
- 6) a wait block that waits for 1 second;
- 7) a control two motors at once block, which is set to the Motor Rotations movement mode, 2 rotations and speed -71;
- 8) a wait block that waits for 1 second.

Place the robot in a freely selected starting position and run the program. The robot reverses 140.8 cm at different speeds.

