



Navigate A City Challenge

TI-84 PLUS CE AND THE TI-INNOVATOR™ ROVER

MATH IN MOTION *PLUS*

STUDENT CHALLENGES

Challenges:

Challenge 1: Use the RV FORWARD command to determine the rate that Rover drives forward, in meters per second.

Challenge 2: Use the RV LEFT or RV RIGHT command to determine the rate that Rover turns, in degrees per second.

Challenge 3: Have Rover drive 1 meter forward in less than 5 seconds. Make use of the SPEED option for the RV FORWARD command.

Challenge 4: Have Rover drive a rectangle using the RV FORWARD, RV LEFT and RV RIGHT commands that can be driven in exactly 10 seconds, ignoring the time it takes to turn.



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Challenge 5: Have Rover drive a square using the RV FORWARD, RV LEFT and RV RIGHT commands giving only SPEED and TIME options. At least two sides of the square should be driven at a different rate than the others.

Challenge 6: Navigate a City
Have Rover navigate between the two locations that your team has been assigned. Be sure to follow the posted speed limits. Choose the path that will allow for the shortest time.