

```
% MATLAB Code for Calculating Fuel Volume and Distance with Pump Rate, Minimum Fuel Level, and Tank Dimensions
```

```
% Given parameters
```

```
V_tank1_max = 300; % Max Volume of the parallelogram tank in liters  
V_tank2 = 100; % Volume of the cuboid tank in liters  
Q_c = 5; % Fuel consumption rate in liters per minute  
Q_p = 20; % Pump rate in liters per minute (from 300L tank to engine)  
M = 0.1; % Mileage in km per liter (assuming mileage is known)  
min_fuel_level = 20; % Minimum fuel level in mm
```

```
% Max dimensions for the 300L tank (in mm)
```

```
length_tank1 = 1030; % Length in mm  
width_tank1 = 196; % Width in mm  
height_tank1 = 936; % Height in mm
```

```
% Volume of the parallelogram tank using its dimensions (converted to liters)
```

```
volume_tank1 = (length_tank1 * width_tank1 * height_tank1) / 1000^3; % in liters
```

```
% Total initial volume of fuel
```

```
V_total = V_tank1_max + V_tank2;
```

```
% Minimum fuel volume constraint for the cuboid tank (20mm level)
```

```
A_tank2 = V_tank2 / 100; % Cross-sectional area for cuboid tank  
min_volume = min_fuel_level * A_tank2; % Minimum volume in liters to maintain 20mm
```

```
% Angles of inclination in degrees
```

```
angles = [15, 30, 45, 60]; % Inclination angles
```

```
% Initialize array to store distances for each angle
```

```
distances = zeros(size(angles));
```

```
% Loop over each angle to calculate fuel volume and distance
```

```
for i = 1:length(angles)
```

```
    theta = angles(i); % Current angle in degrees  
    theta_rad = deg2rad(theta); % Convert angle to radians
```

```
    % Calculate effective fuel volume on incline, with minimum level constraint
```

```
    V_incline = V_total * cos(theta_rad);  
    V_incline = max(V_incline, min_volume); % Ensure fuel volume doesn't go below minimum level
```

```
    % Calculate net fuel flow rate (pump supplies more than engine consumes)
```

```
    Q_net = Q_p - Q_c;
```

```
    % Calculate time of travel before fuel depletes
```

```
    T = V_incline / Q_net; % in minutes
```

```
    % Calculate maximum distance the vehicle can travel
```

```
    D = M * T; % in kilometers
```

```
    % Store the distance for plotting
```

```
    distances(i) = D;
```

```
    % Display all relevant values using disp
```

```
    disp(['For an incline angle of ', num2str(theta), ' degrees:']);  
    disp([' Effective Fuel Volume (on incline): ', num2str(V_incline), ' liters']);  
    disp([' Maximum Distance Traveled: ', num2str(D), ' kilometers']);  
    disp([' Fuel Consumption Rate: ', num2str(Q_c), ' liters per minute']);  
    disp([' Pump Rate: ', num2str(Q_p), ' liters per minute']);  
    disp([' Minimum Fuel Volume (to maintain 20mm level): ', num2str(min_volume), ' liters']);  
    disp('-----');
```

```
end
```

```
% Plotting the results
```

Fluid Flow Matlab Code

SA Adler



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