ENGS 22; Pset 2

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Plot velocity against time of a canoe as well as fit Sep 29nd, 2024 Bob B Moriasi

Read data from the csv

```
data = readtable('CanoeCoast_Down2.csv');
decel = data(73:end, :);
time = decel{:, "Run1_Time_s_"};
velocity = decel{:, "Run1_FlowRate_m_s_"};
```

Warning: Column headers from the file were modified to make them valid MATLAB identifiers before creating variable names for the table. The original column headers are saved in the VariableDescriptions property.
Set 'VariableNamingRule' to 'preserve' to use the original column headers as table variable names.

The fit

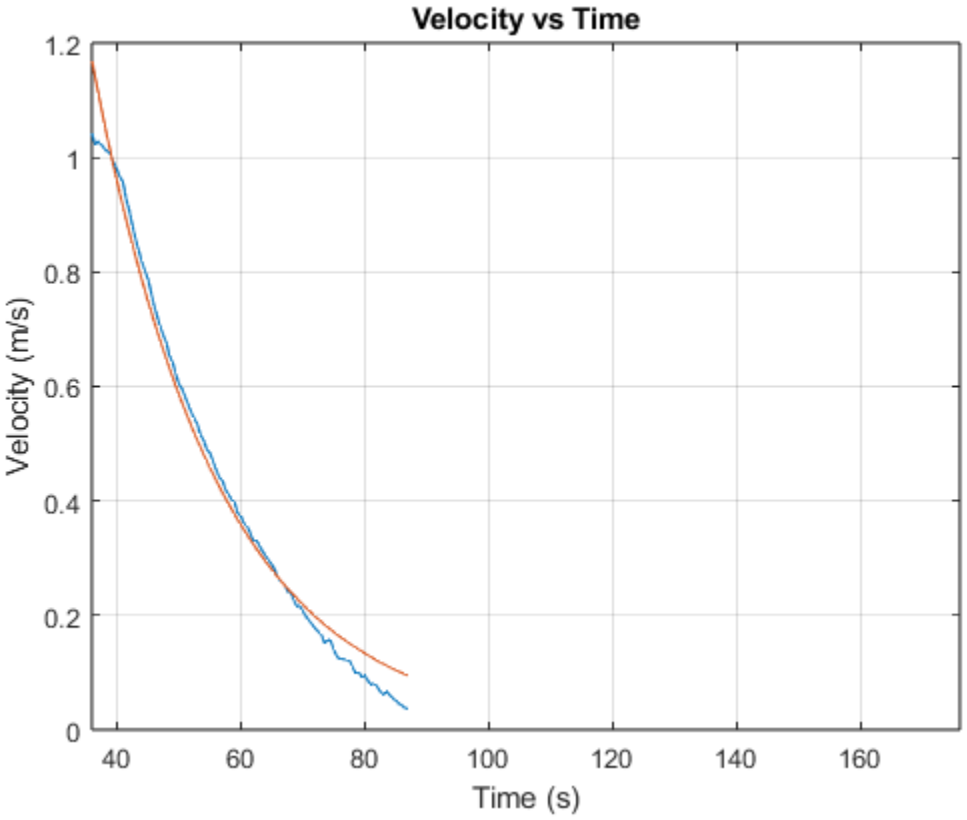
```
fitY = 6.8996 * exp(-0.0493 * time);
```

Plot the data

```
figure;
plot(time, velocity);

hold on
% Overlay the fit
plot(time, fitY);
title('Velocity vs Time');
xlim([36 176])
xlabel('Time (s)');
ylabel('Velocity (m/s)');
grid on;

hold off
```



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