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% Aditya Gopalan
% APPM 2360 Matlab Homework 5
% Due: Thursday, October 17, 2019
% Problem 2 - Fourth Derivative Function
```

```
function vprime = fourth_derivative(t,v)
    x1 = v(1);
    x2 = v(2);
    x3 = v(3);
    x4 = v(4);

    vprime = zeros(4,1);

    vprime(1) = x2;
    vprime(2) = x3;
    vprime(3) = x4;
    vprime(4) = -8*x1 + sin(t)*x2 - 3*x3 + t.^2;
end
```

Not enough input arguments.

Error in fourth_derivative (line 7)
 x1 = v(1);

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