

- (a) A cantilever beam shown in Figure 6 is subjected to a concentrated load P . Deflection of the beam at each point can be defined by the following equations:

$$y = \frac{Px^2}{6EI} (3a - x) \quad \text{for } 0 < x < a$$

$$y = \frac{Pa^2}{6EI} (3x - a) \quad \text{for } a < x < l$$

The following MATLAB code calculates and plots the deflection diagram for a beam with $l = 4$ m, $a = 3$ m, $b = 1$ m, $E = 210 \times 10^9$ Pa, $I = 285 \times 10^{-6}$ m⁴ and $P = 20$ kN. Find at least FOUR errors in the code. For each error identified, explain why the error is caused.

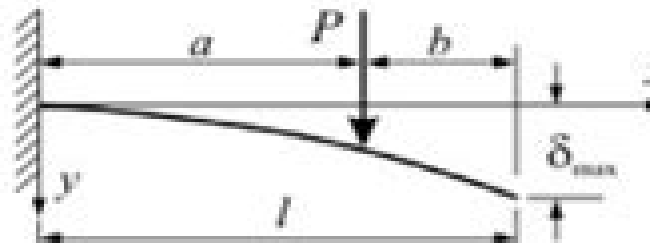


Figure 6

```
clear, clc
L=4;
a=3;
b=1;
E=210E9;
I=285E-6;
P=20E3;
x=0,0.01,L;
for i==1:length(x)
if x(i)<a
    y(i)=P*(x(i).^2).*(3*a-x(i))./(6*E*I);
elseif
    y(i)=P*(a^2)*(3*x(i)-a)./(6*E*I);
end
plot(x,y)
```

(8 marks)

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S Ashworth



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