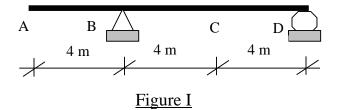
## **INFLUENCE LINES (1)**

## **CIVE311 – STRUCTURES I**

(Wednesday, February 27, 2008)

Exercise I/II: (20 mn)

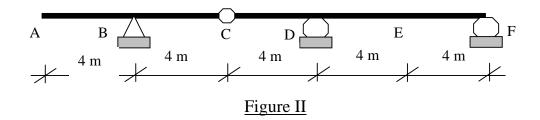


Referring to Figure I, draw the influence lines for  $R_B$ ,  $M_B$ ,  $M_C$ , and  $V_C$ .

Calculations and Diagrams:

Calculations and Diagrams (cont'd):			

## Exercise II/II: (40 mn) (taken from Quiz 1, Spring 2002-03)



1. Referring to Figure II, draw the influence lines for  $R_F$ ,  $V_B$ , and  $M_E$ .

<u>Calculations and Diagrams:</u>				

Calculations and Diagrams (cont'd):				

2.	Let $w_D$ =20 kN/m (dead load); $w_L$ =10 kN/m and $P$ =20 kN (live loads) Compute the maximum absolute value for $R_F$ .			
	Calculations and Diagrams:			

3. Compute the maximum absolute value for  $M_E$  for the following truck moving load, which can travel in either directions.

	<i>10</i>	10 kN
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Calculations and Diagrams:  3 3 m