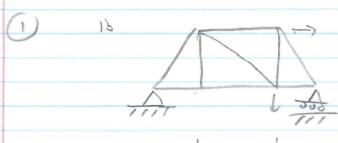
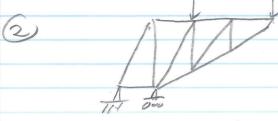
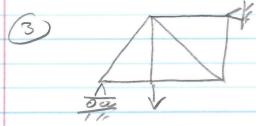
Exam Versions







1a)
$$F = f_{2x} = |c(u_2 - u_1)| = |uu| f_{in}(u_2 - u_1)$$
 $U = \frac{1}{2} |c(u_2 - u_1)|^2$
 $U_1 = \frac{1}{2} |c(u_2 - u_1)|^2$
 $U_2 = \frac{1}{2} |c(u_2 - u_1)|^2$
 $U_3 = \frac{1}{2} |c(u_2 - u_1)|^2$
 $U_4 = \frac{1}{2} |c(u_1 - u_1)|^2$
 $U_5 = \frac{1}{2} |c(u_1 - u_1)|^2$
 $U_7 = \frac{1}{2}$

$$Element 1 \quad \Theta_{1} = 0, C_{1} = 1, S_{2} = 0$$

$$Element 2 \quad \Theta_{2} = 270^{2}, C_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 270^{2}, C_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 270^{2}, C_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 270^{2}, C_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 270^{2}, C_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 270^{2}, C_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 270^{2}, C_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 270^{2}, C_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 270^{2}, C_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = -1$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = 0$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = 0$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = 0$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = 0$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = 0$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = 0$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = 0$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = 0$$

$$Element 2 \quad \Theta_{2} = 0, S_{2} = 0$$

$$Element 2 \quad \Theta_{2}$$