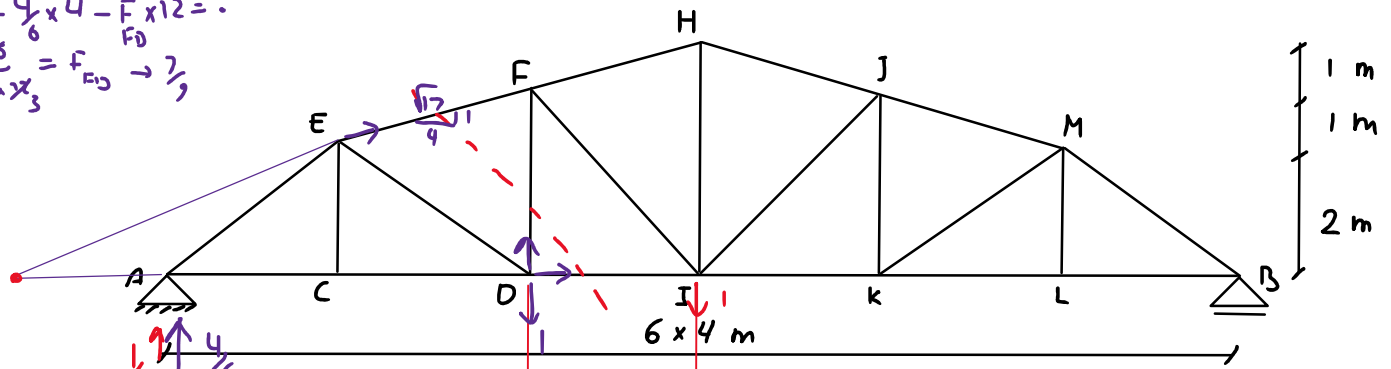


مثال: خط تأثیر اعضاء EF, FD را رسم کنید.

$$1 \times 12 - \frac{4}{6} \times 4 - F \times 12 = 0$$

$$1 - \frac{4}{6} = F \times 12 \rightarrow \frac{2}{3}$$



$$-\frac{1}{2} \times 4 = F \times 12$$

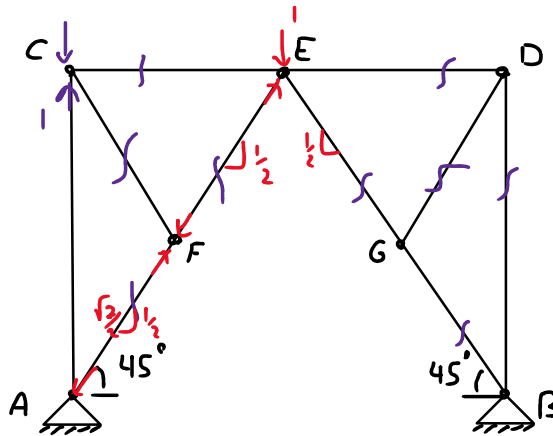
$F_{FD}$

$$\frac{4}{6} \times 8 + \frac{4}{12} F \times 2 + \frac{1}{12} F \times 4 = 0$$

$F_{EF}$

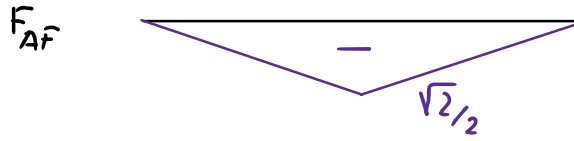
1.83

مثال: خط تأثیر اعضاء AC, AF را رسم نمایید؛ وقتی بار روی CD حرکت می‌کند.

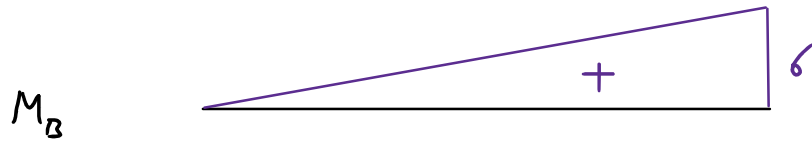
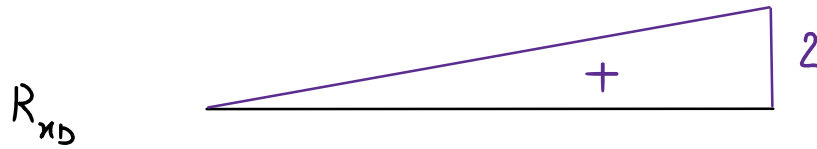
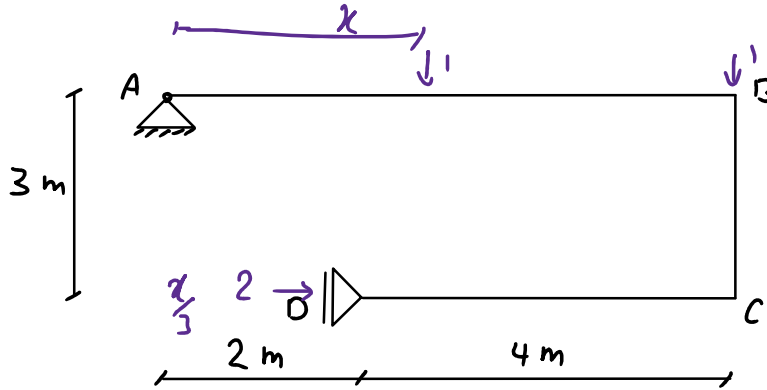


$F_{Ac}$

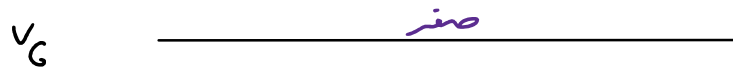
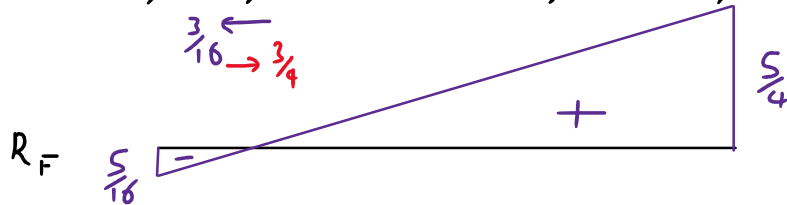
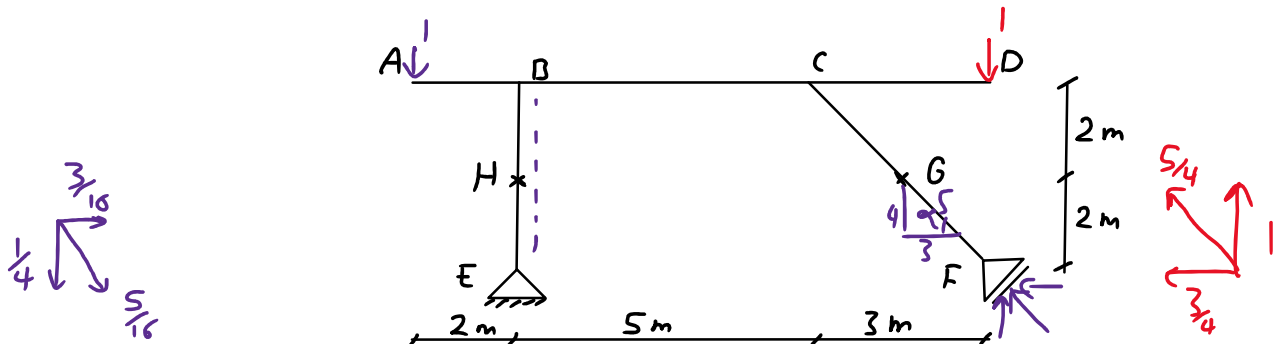


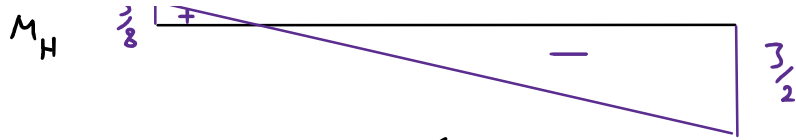


مثال: خطوط تأثیر  $R_{xD}$  و  $M_B$  وقتی بار در عضو  $AB$  حرکت نکند.

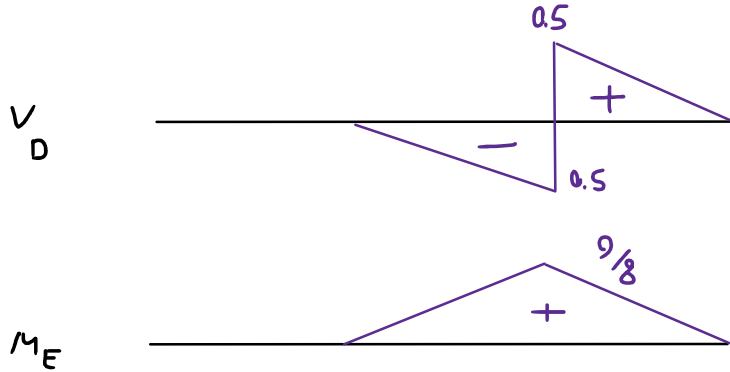
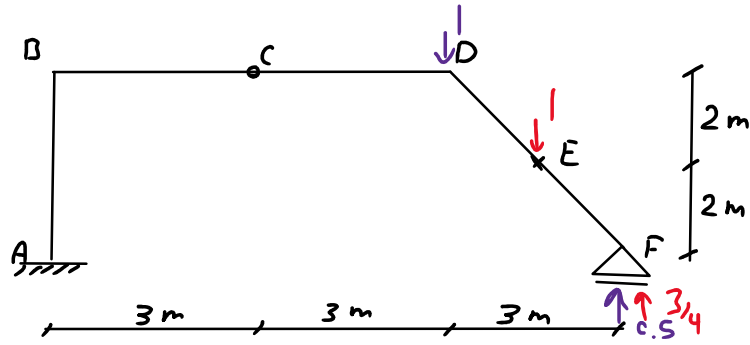
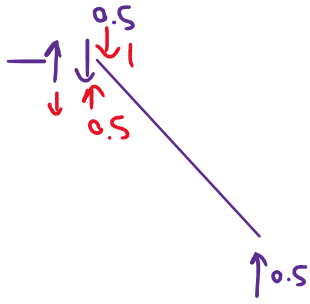


مثال: وقتی بار در سرتیر حرکت نکند، خط تأثیر  $R_F$ ،  $V_G$  و  $M_H$  را بدست آورید.

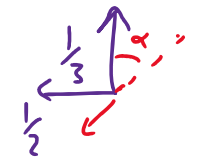
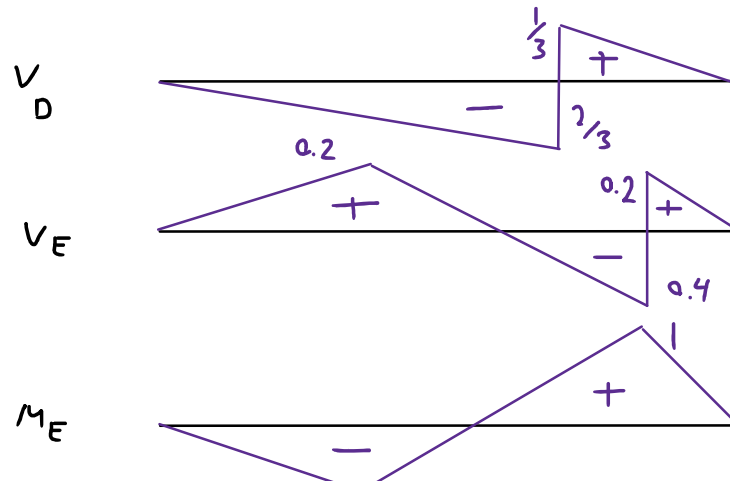
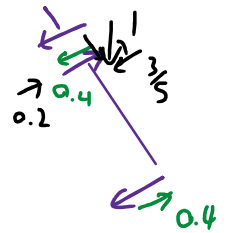
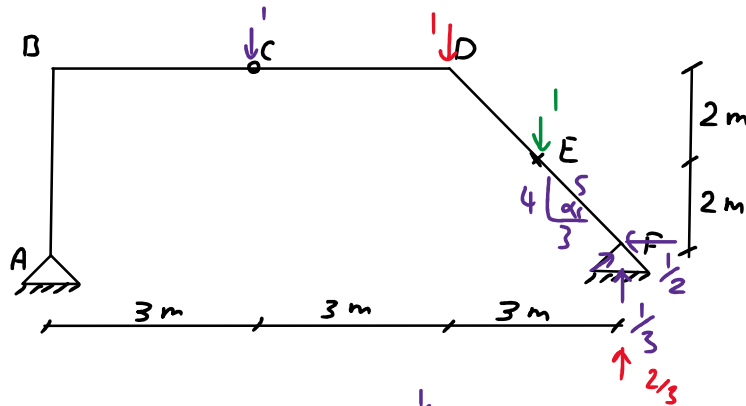
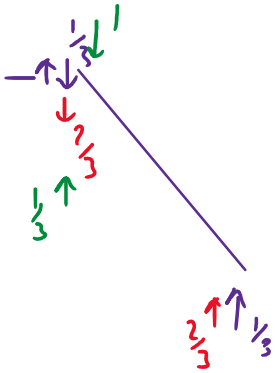




مسئله: خط تأثیر  $V_D$  و  $M_E$  را وقتی بار روی BCDF حرکت می‌کند، رسم کنید.



مسئله: خط تأثیر  $V_E$ ،  $V_D$  و  $M_E$  را وقتی بار روی BCDF حرکت می‌کند، رسم کنید.



$$\frac{1}{3} \cos \alpha - \frac{1}{2} \sin \alpha$$

$$\frac{1}{3} \times \left(\frac{3}{5}\right) - \frac{1}{2} \left(\frac{4}{5}\right) = -\frac{1}{5}$$

$$\frac{8}{16} \left(\frac{3}{5}\right) - \frac{1}{8} \left(\frac{4}{5}\right) = 0.4$$

