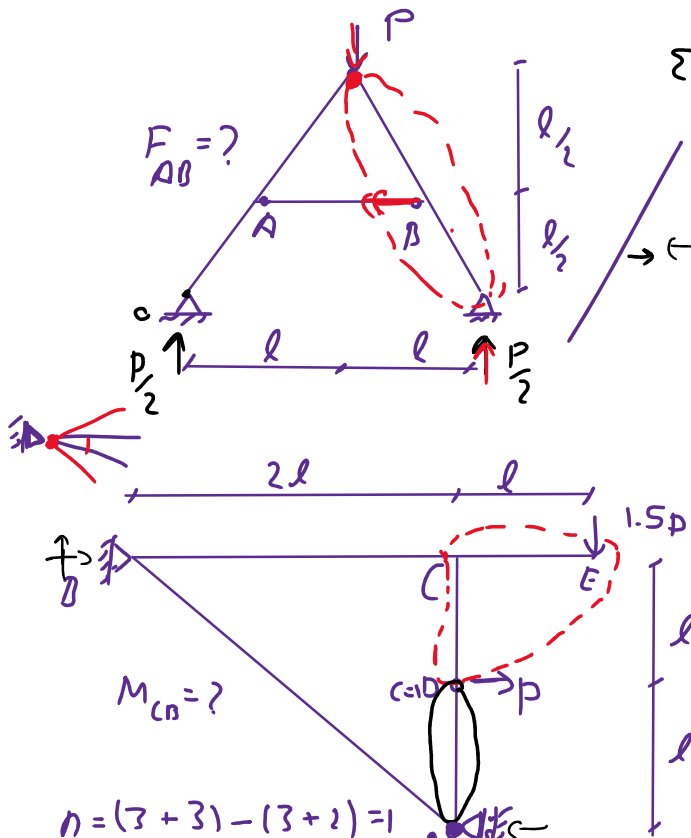
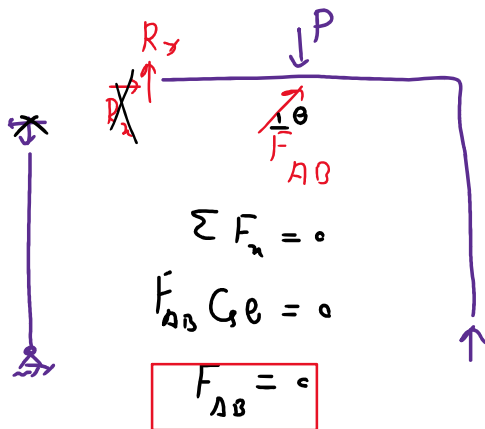
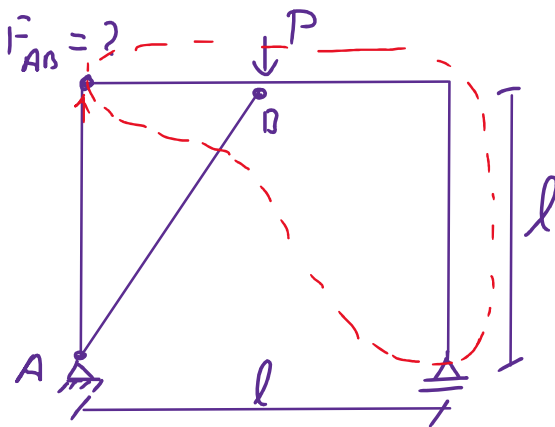
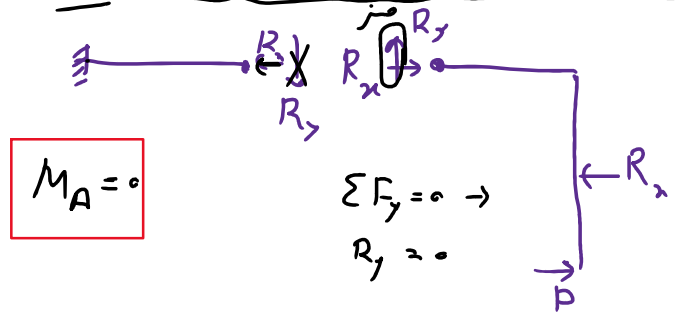
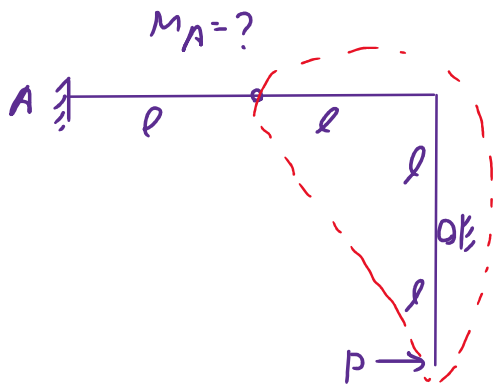
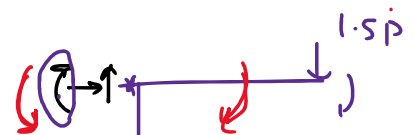
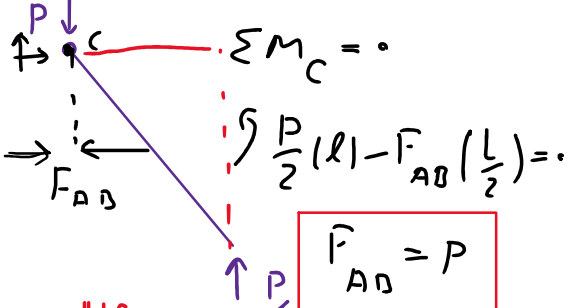


فصل دوم: تحلیل سازه‌های مارین


استفاده از معادلات قادل و دیگر اگرام آزاد



$\Sigma M_A = 0 \rightarrow PL - R_y(2l) = 0 \rightarrow R_y = \frac{P}{2}$

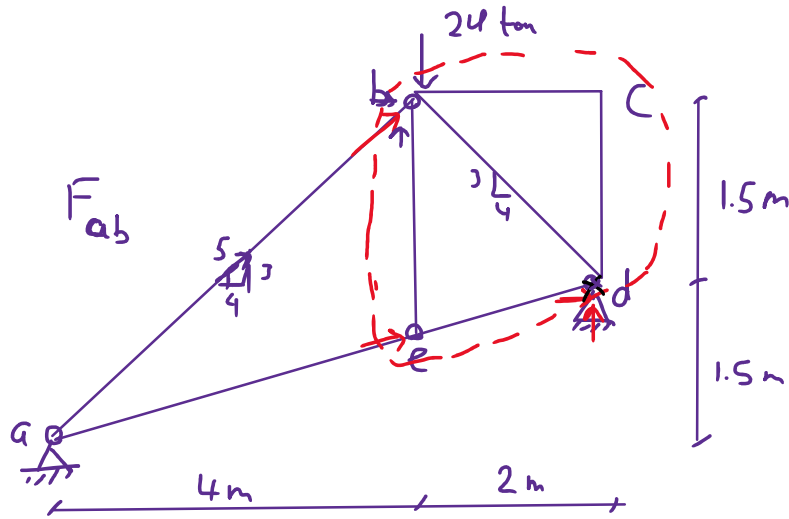


$M_{C0} = 1.5P(l) - Pl = \frac{PL}{2}$

$$n = (3 + 3) - (3 + 2) = 1$$


$$M_{C0} = 1.5P(l) - Pl = \frac{PL}{2}$$

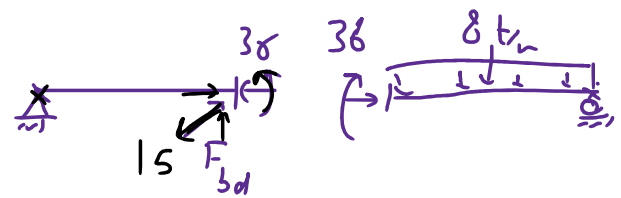
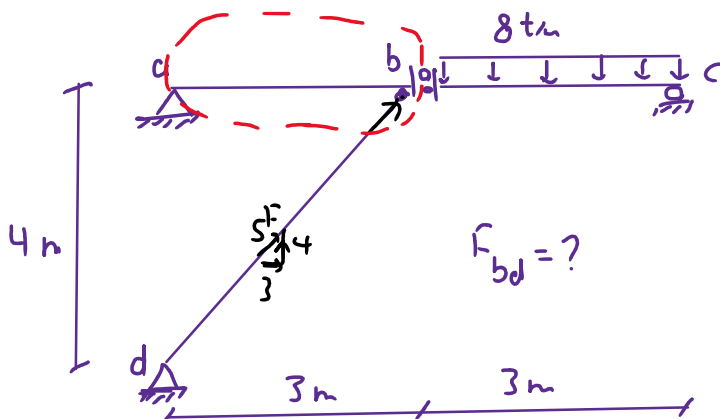
$$1.5P(l) - Pl + M_{C0} = 0 \rightarrow M_{C0} = -\frac{PL}{2}$$



$$\sum M_d = 0$$

$$24(2) - F\left(\frac{4}{5}\right)(1.5) - F\left(\frac{3}{5}\right)(2) = 0$$

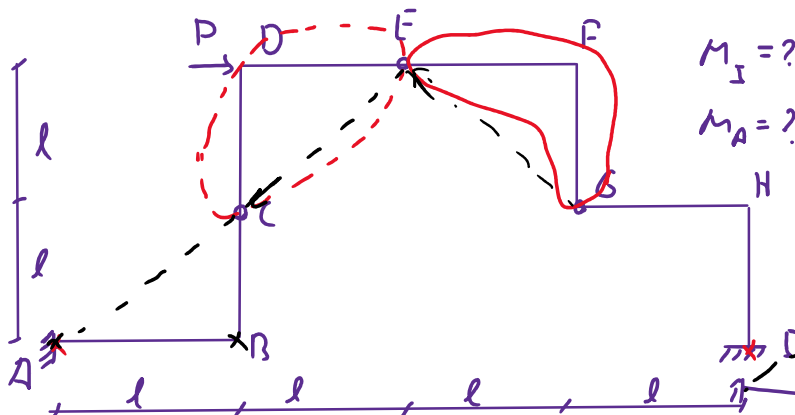
$$F = 20 \text{ ton}$$



$$8(3)(1.5) - M = 0$$

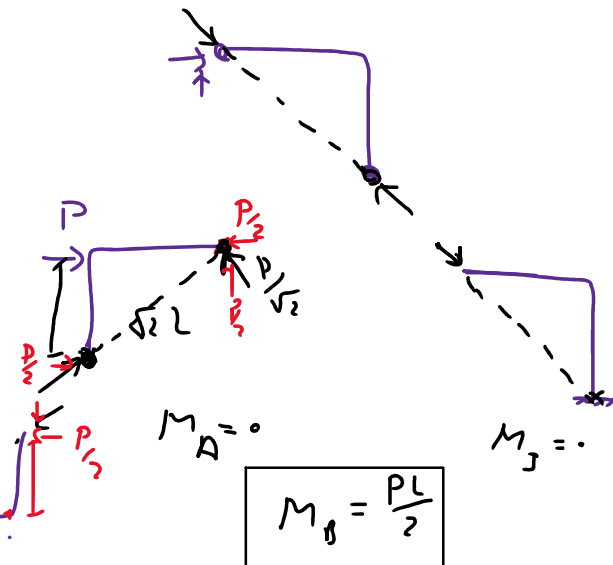
$$\frac{4}{5}F(3) + 36 = 0 \rightarrow F_{bd} = -15$$

P, V, M



$$M_I = ?$$

$$M_A = ?$$



$$M_B = \frac{PL}{2}$$

