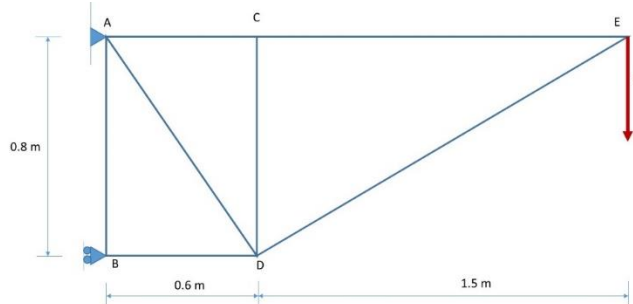


EXERCISES

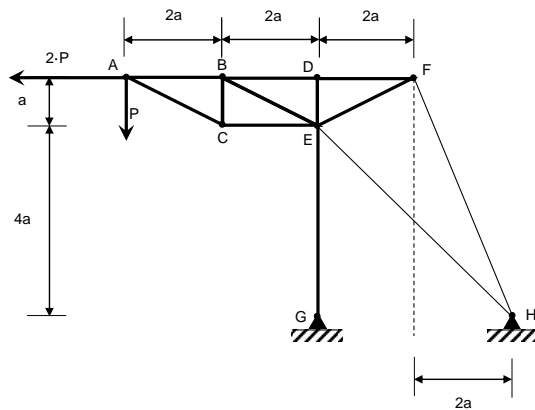
1.1. Determine the axial forces in all bars of the structure



Solution:

	N_i
AB	0
AC	$+15P/8$
AD	$+5P/4$
BD	$-21P/8$
CD	0
CE	$+15P/8$
DE	$-17P/8$

1.2. Calculate the forces in the supports and the internal forces in all the bars of the structure of the figure:



Solution:

Internal forces

AC	AB	CB	CE	BE	BD	DF	DE	FH	EF	EH	EG
$-\sqrt{5}P$	$4P$	P	$-2P$	$-\sqrt{5}P$	$6P$	$6P$	0	$\frac{\sqrt{29}}{2}P$	$-\frac{15}{6}\sqrt{5}P$	$\sqrt{2}p$	$-\frac{9}{2}P$

Forces in the supports

$$V_G = \frac{9}{2}P \quad V_H = -\frac{7}{2}P \quad H_H = 2P$$