

3-1. Classify each of the following trusses as statically determinate, statically indeterminate, or unstable. If indeterminate, state its degree.

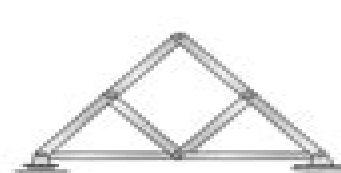
a) $b = 8, r = 3, j = 6$

$b + r = 2j$

$11 < 12$

Unstable.

Ans.



(a)



(b)

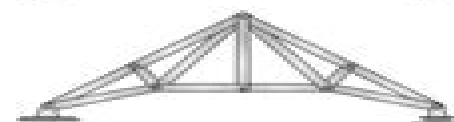
b) $b = 7, r = 4, j = 5$

$b + r = 2j$

$11 > 10$

Statically indeterminate to 1°.

Ans.



(c)

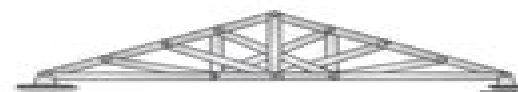
c) $b = 13, r = 3, j = 8$

$b + r = 2j$

$16 = 16$

Statically determinate.

Ans.



(d)

d) $b = 21, r = 3, j = 12$

$b + r = 2j$

$24 = 24$

Statically determinate.

Ans.

3-2. Classify each of the following trusses as stable, unstable, statically determinate, or statically indeterminate. If indeterminate, state its degree.

(a) $r = 3$

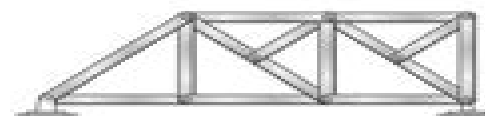
$b = 15$

$j = 9$

$3 + 15 = 9(2)$

Statically determinate.

Ans.



(a)

(b) $r = 3$

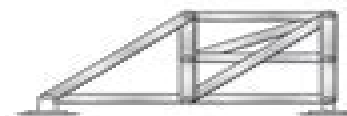
$b = 11$

$j = 7$

$3 + 11 = 7(2)$

Statically determinate.

Ans.



(b)

(c) $r = 3$

$b = 12$

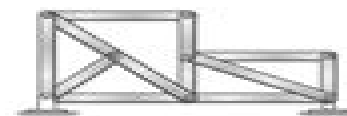
$j = 8$

$3 + 12 < 8(2)$

$15 < 16$

Unstable.

Ans.



(c)

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Swaminathan Sankaran



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