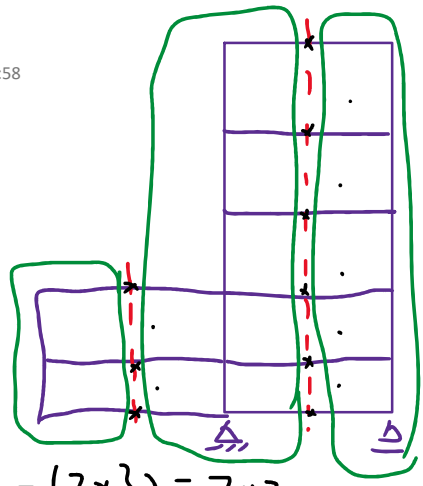
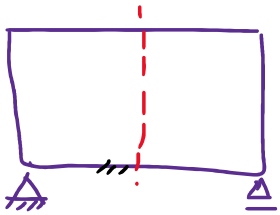
Determ

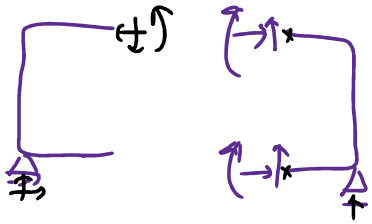
Friday, October 13, 2023 14:58

حلقه بسته



$h = (3 + 9\times3) - (3\times3) = 7\times3$



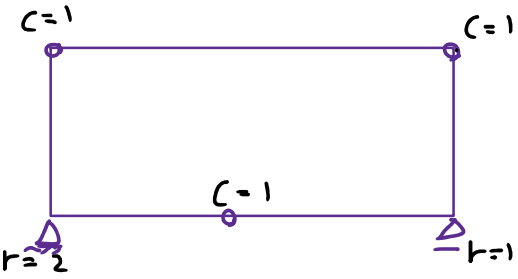


$h = (3 + 6\times3) - (2\times3) = 5\times3$

$n = (3 + 2\times3) - (2\times3) = 3$

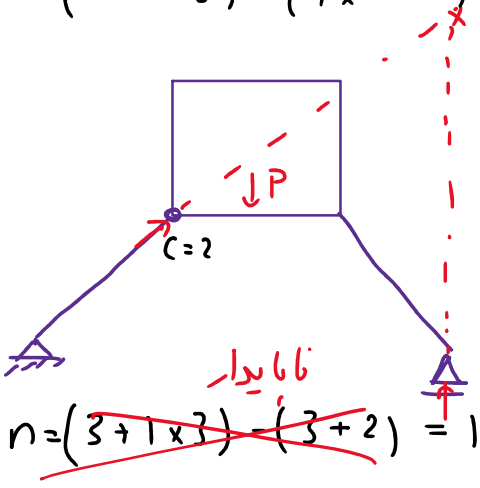
$$n = (3,0 + r) - (3 + c)$$

تعداد حلقه بسته — تعداد واکنش‌ها — تعداد میله‌ها — معادلات شرط

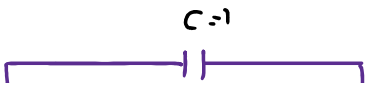


$h = (3 + 1\times3) - (3 + 3) = 0$

$n = (3\times4 + 3) - (4\times3 + 3) = 0$

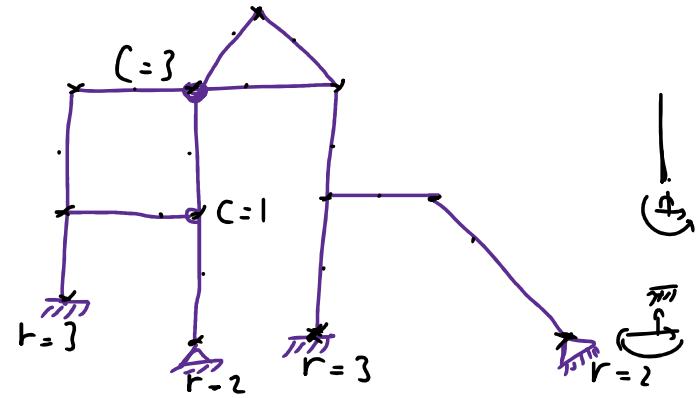


$n = (3 + 1\times3) - (3 + 2) = 1$



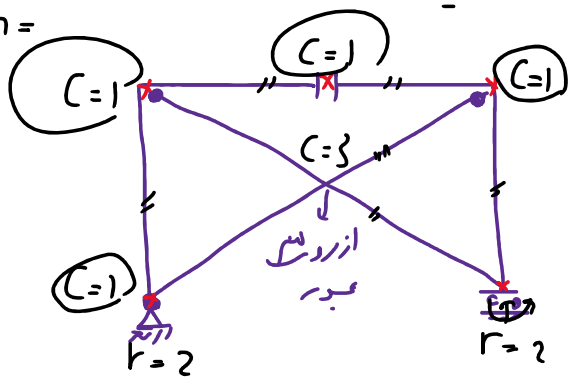
مثال:

$n = (13\times3 + 10) - (12\times3 + 4) = 9$



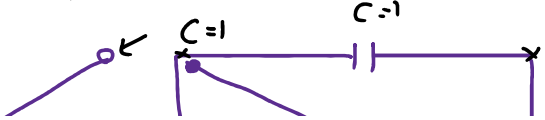
$n = (10 + 2\times3) - (3 + 4) = 9$

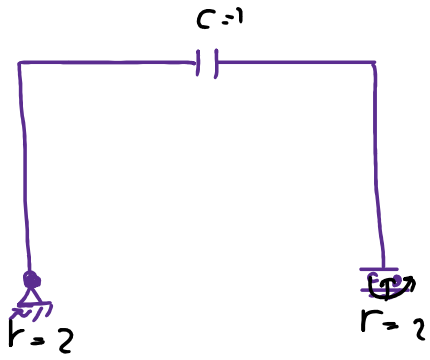
$n =$



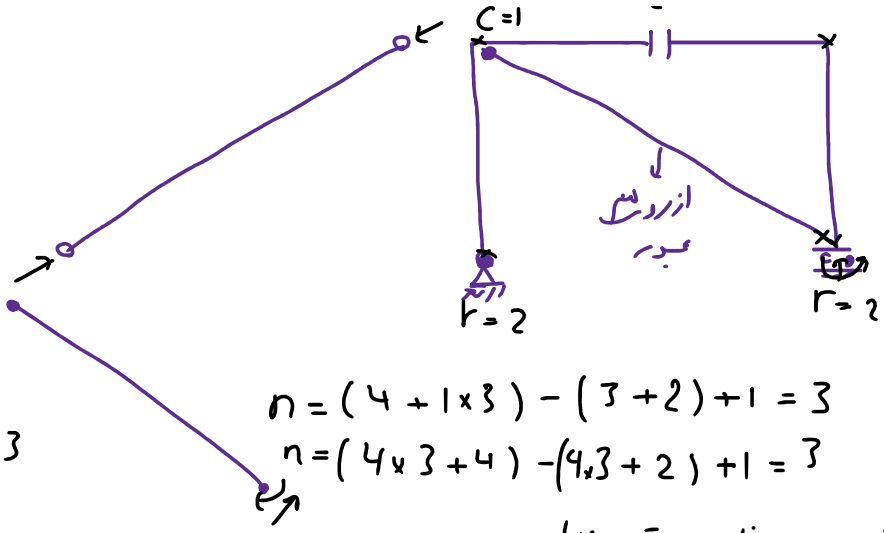
$n = (4 + 3\times3) - (3 + 7) = 3$

$n = (6\times3 + 4) - (5\times3 + 4) = 3$





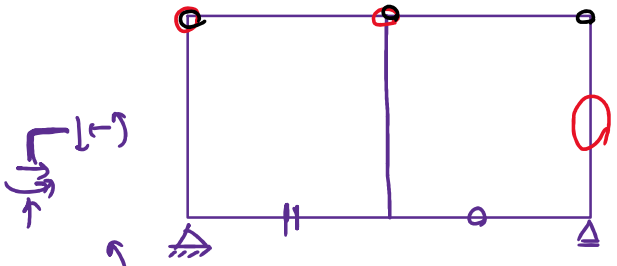
$n=(4+0)-(3+1)+1+2=3$



$n=(4+1\times3)-(3+2)+1=3$

$n=(4\times3+4)-(4\times3+2)+1=3$

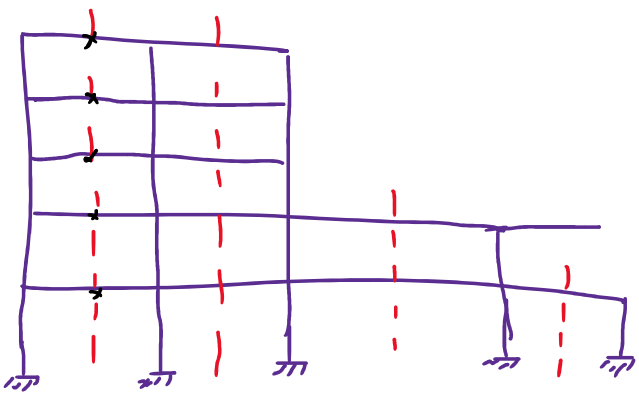
رابطه دوم درجه نامعین تیرها

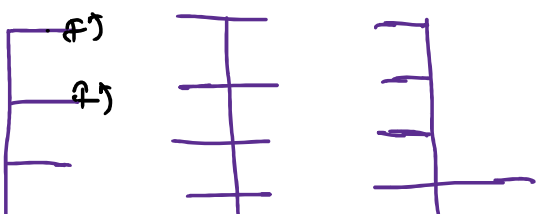


$n=(3m+r)-(3j+c)$

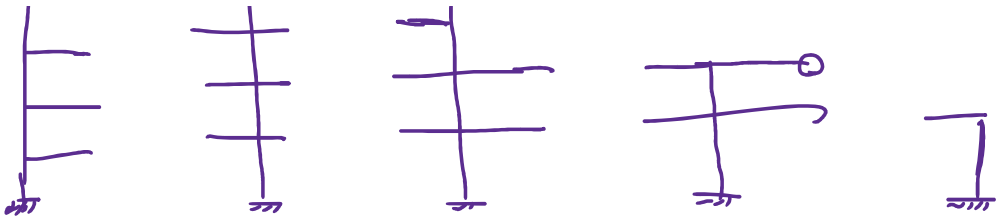
m: تعداد اعضا
r: تعداد واکنش‌ها
j: تعداد گره‌ها
c: ...

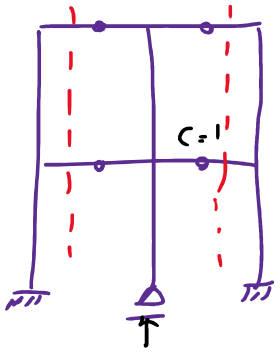
روش درختی برای تیرها



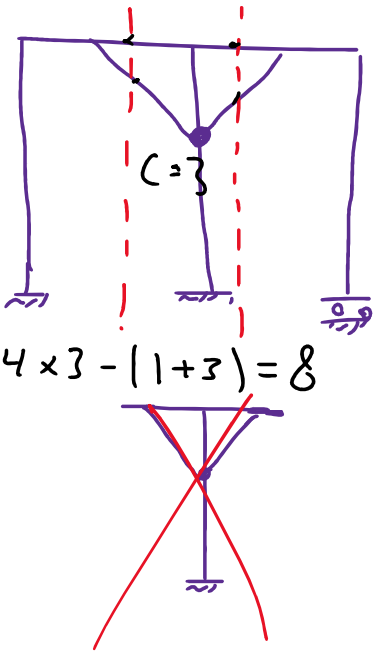


$n=13\times3=39$





$n = (4 \times 3) - (2 + 4) = 6$



$n = 4 \times 3 - (1 + 3) = 8$