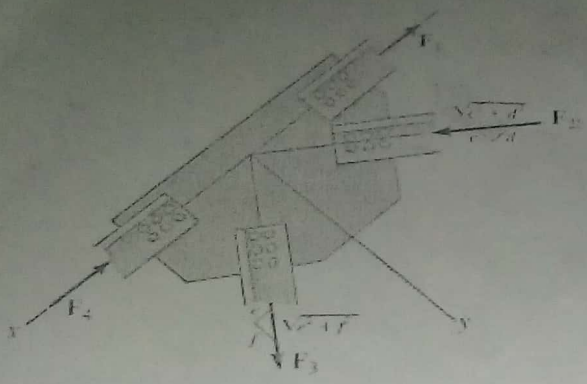
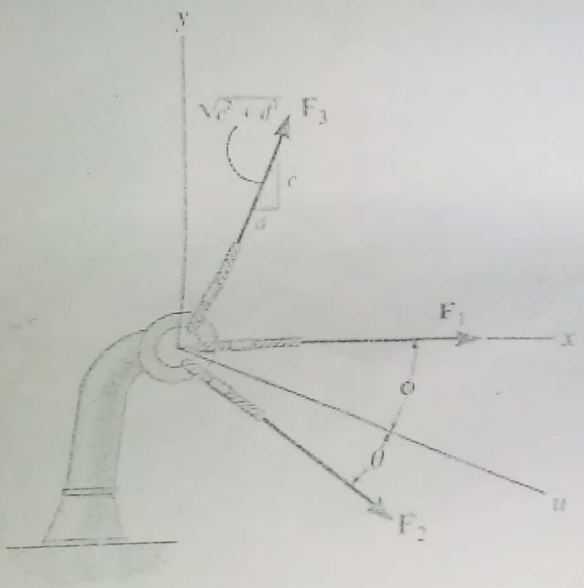
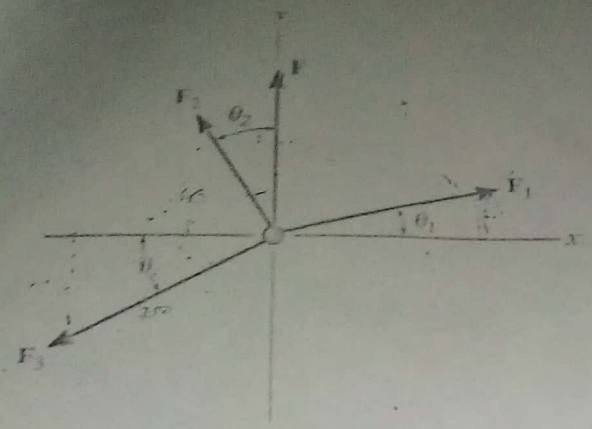


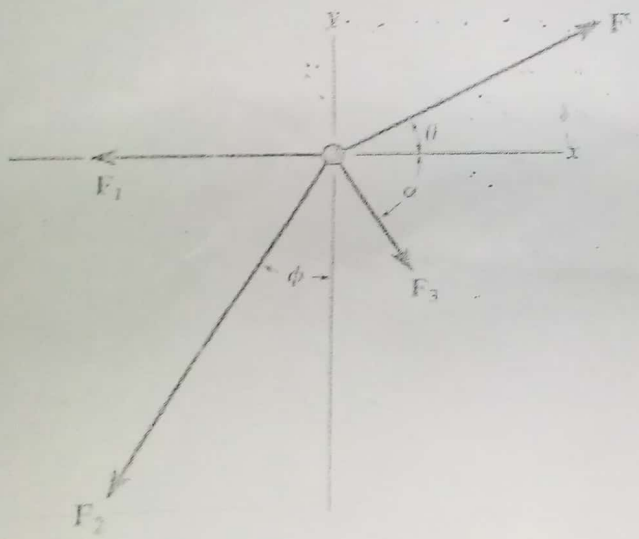
$F1 = 200$ lb $c = 3$
$F2 = 400$ lb $d = 4$
$F3 = 300$ lb $e = 3$
$F4 = 300$ lb $f = 4$



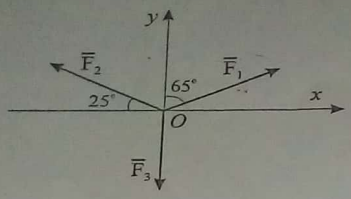
$FR = 50$ lb
$F1 = 80$ lb
$F3 = 52$ lb
$\varphi = 25$ deg
$c = 12$
$d = 5$



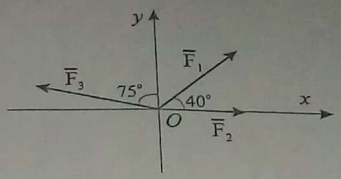
Determine the magnitude of F and the orientation θ of the force F3 so that the particle is in equilibrium.
Given:
F1 = 700 N
F2 = 450 N
F3 = 750 N
θ*1* = 15 deg
θ2 = 30 deg



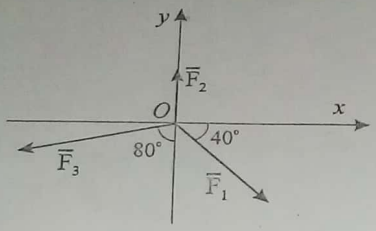
Determine the magnitude and angle θ of F so that the particle is in equilibrium.
Units Used:
kN = 103 N
Given:
F1 = 4.5 kN
F2 = 7.5 kN
F3 = 2.25 kN
α = 60 deg
φ = 30 deg



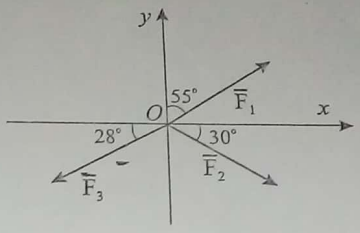
Рыс. 1.17.4



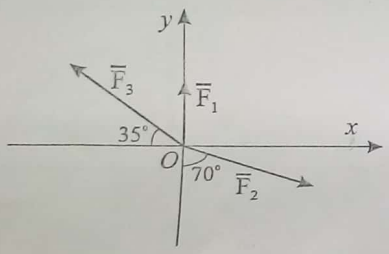
Рыс. 1.18.4



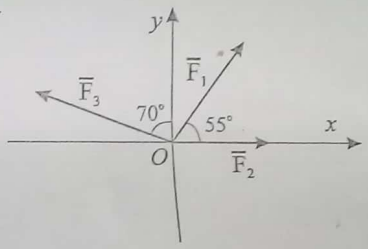
Рыс. 1.19.4



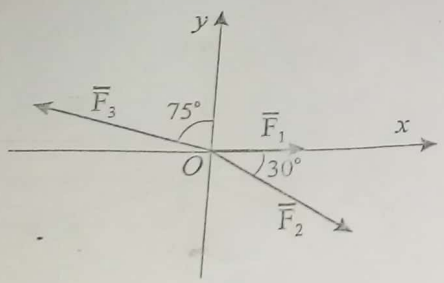
Рыс. 1.20.4



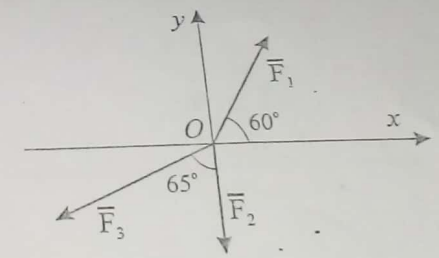
Рыс. 1.21.4



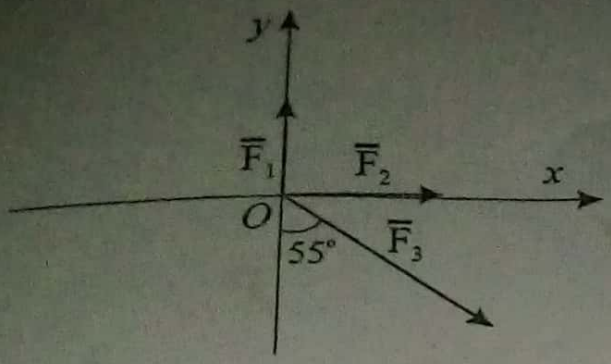
Рыс. 1.22.4



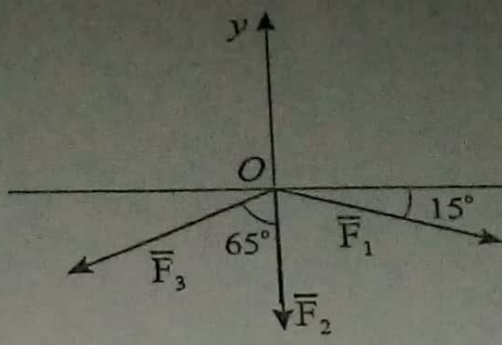
Рыс. 1.23.4



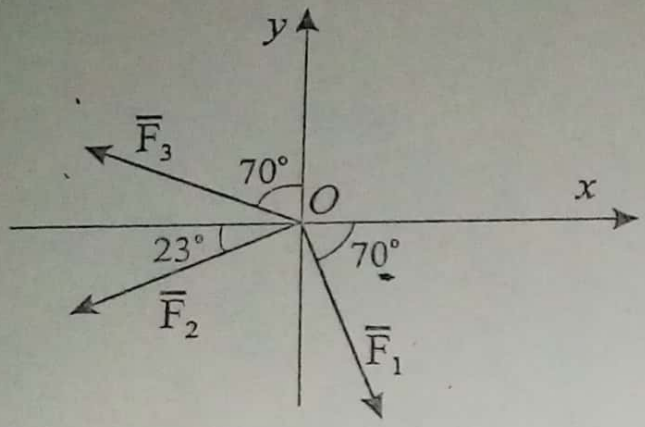
Рыс. 1.24.4



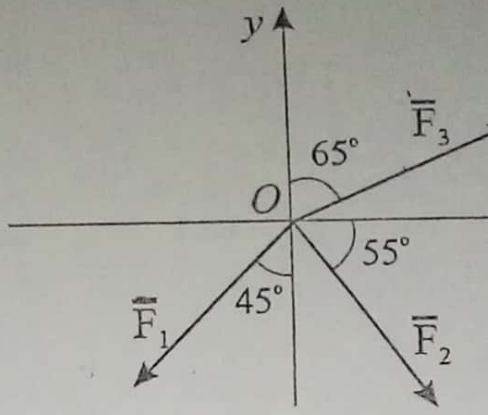
Рыс. 1.9.4



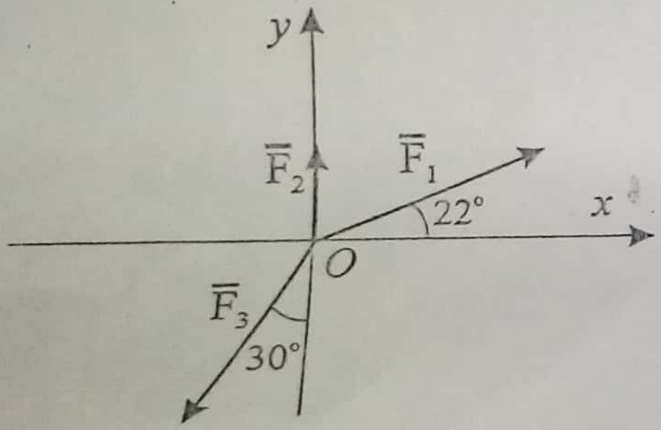
Рыс. 1.10.4



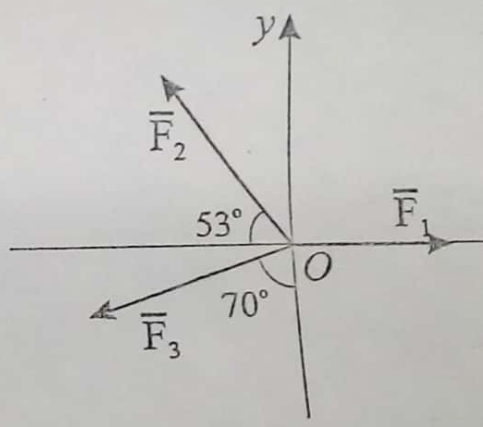
Рыс. 1.11.4



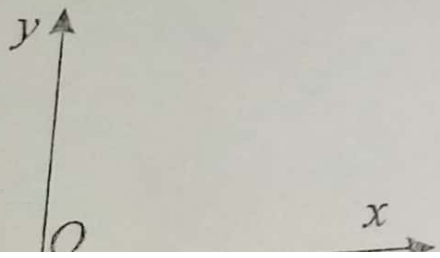
Рыс. 1.12.4

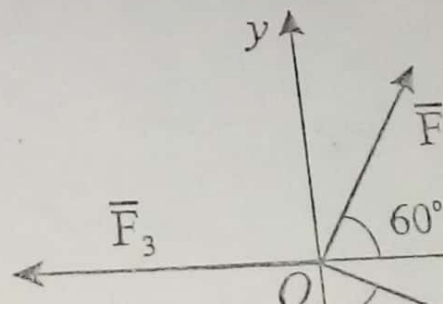


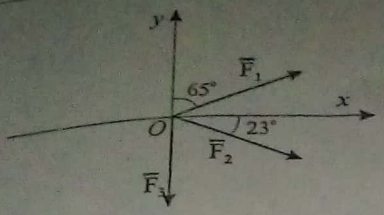
Рыс. 1.13.4



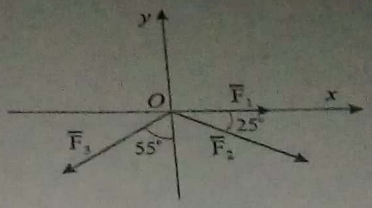
Рыс. 1.14.4



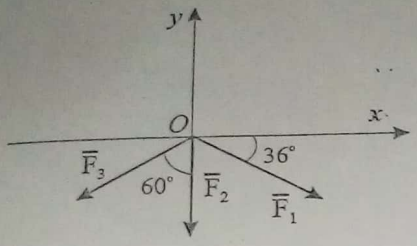




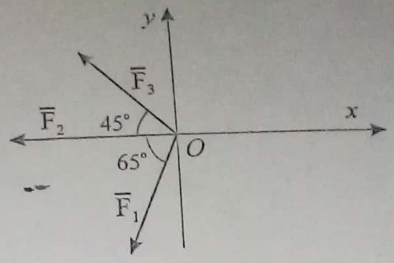
Рыс. 1.1.4



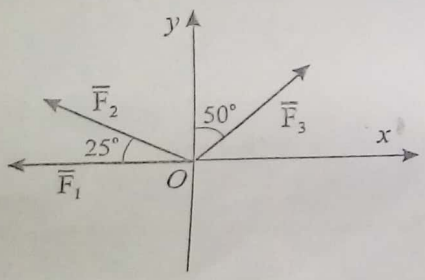
Рыс. 1.2.4



Рыс. 1.3.4



Рыс. 1.4.4



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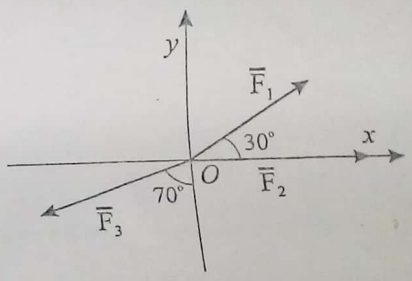
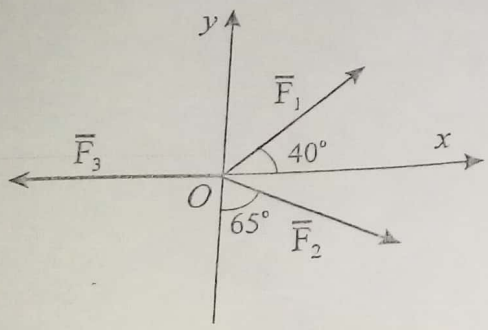


Рыс. 1.6.4



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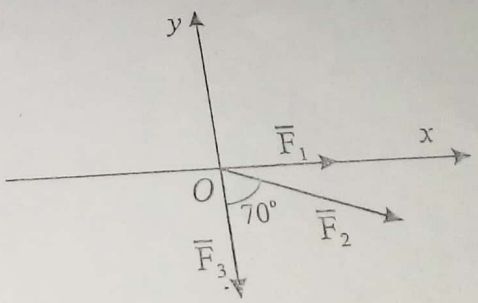


Рыс. 1.8.4

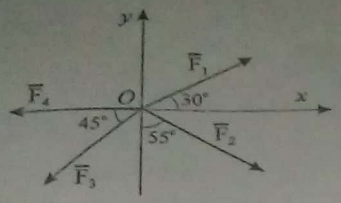


Рис. 1.25.3

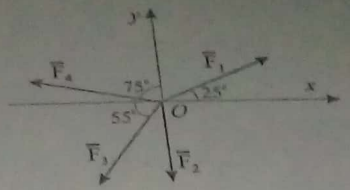


Рис. 1.26.3

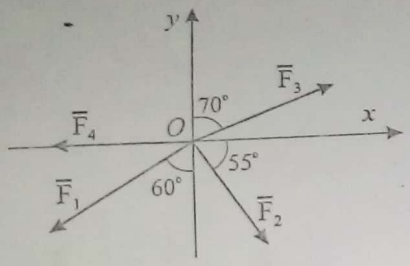


Рис. 1.27.3

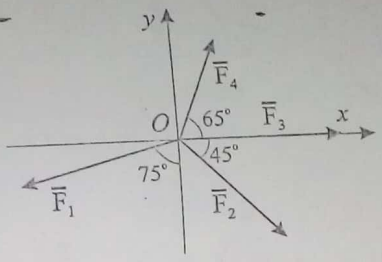


Рис. 1.28.3

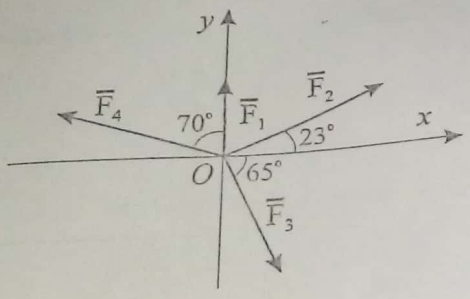


Рис. 1.29.3

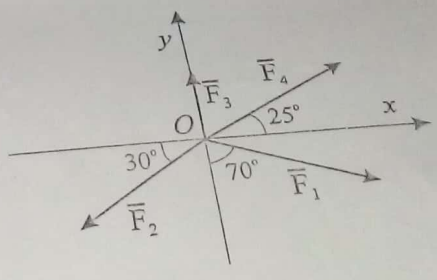
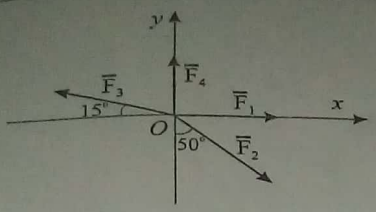
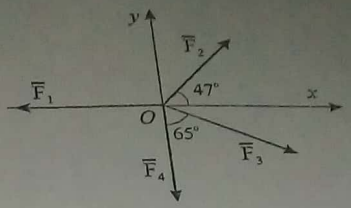


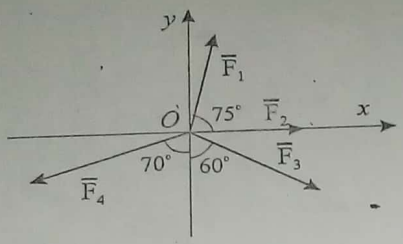
Рис. 1.30.3



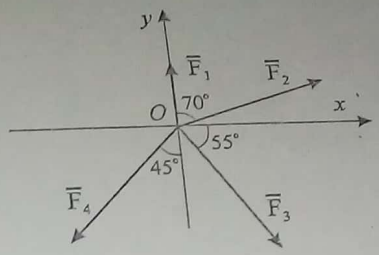
Рыс. 1.17.3



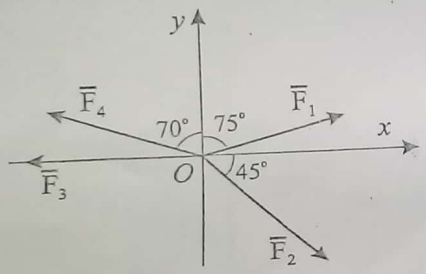
Рыс. 1.18.3



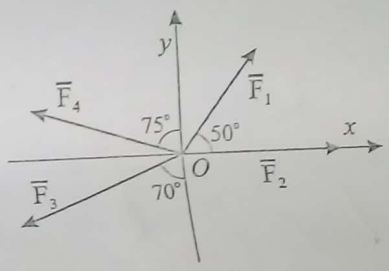
Рыс. 1.19.3



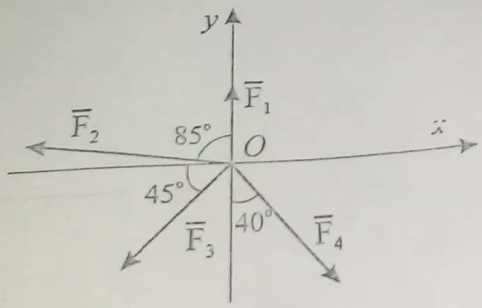
Рыс. 1.20.3



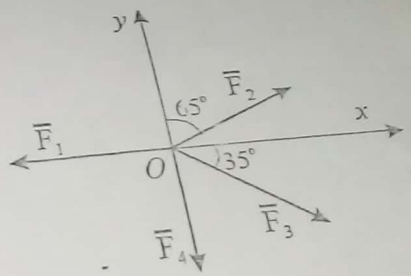
Рыс. 1.21.3



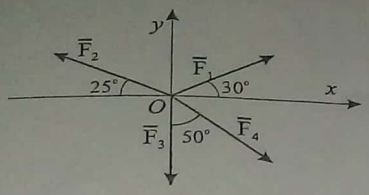
Рыс. 1.22.3



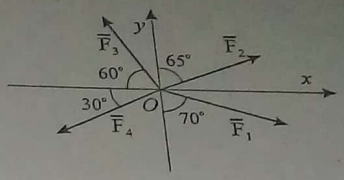
Рыс. 1.23.3



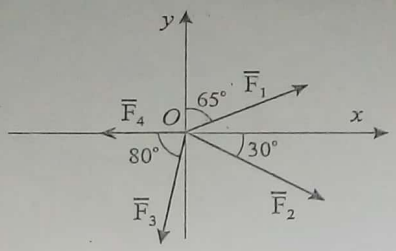
Рыс. 1.24.3



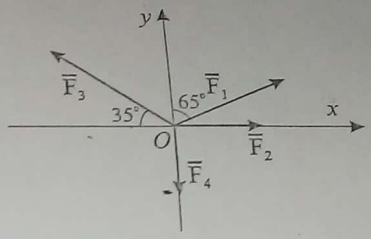
Рыс. 1.9.3



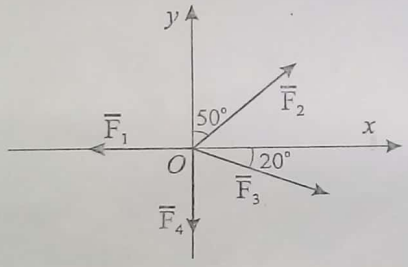
Рыс. 1.10.3



Рыс. 1.11.3



Рыс. 1.12.3



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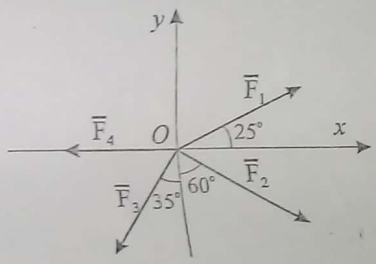

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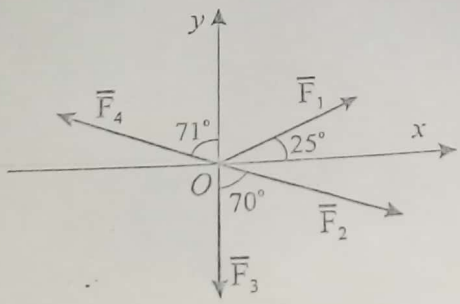

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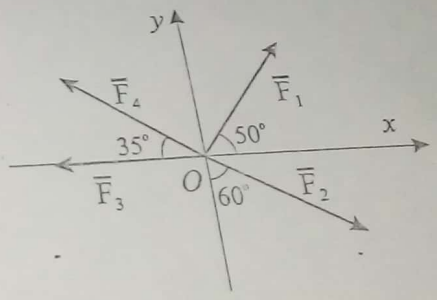
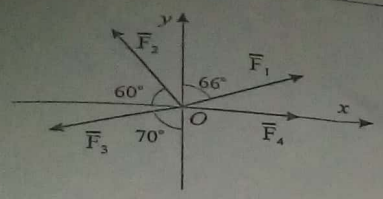
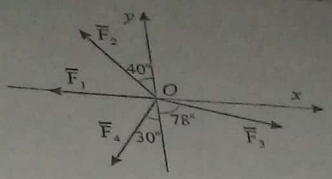


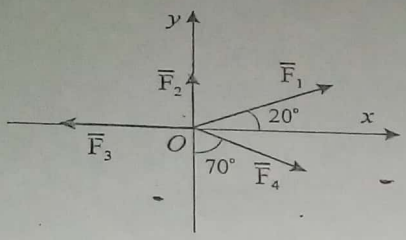
Рыс. 1.16.3



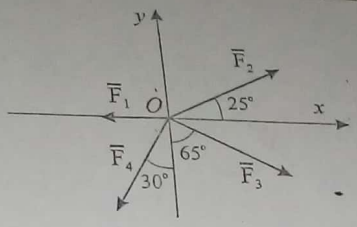
Рыс. 1.1.3



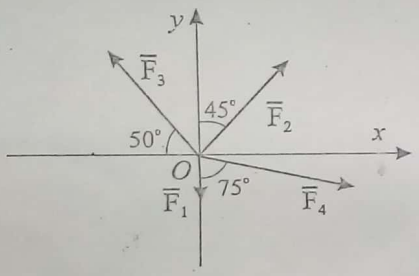
Рыс. 1.2.3



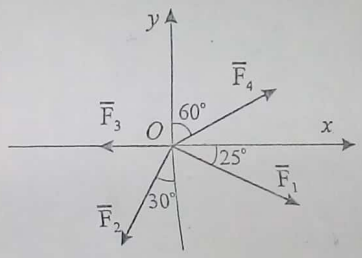
Рыс. 1.3.3



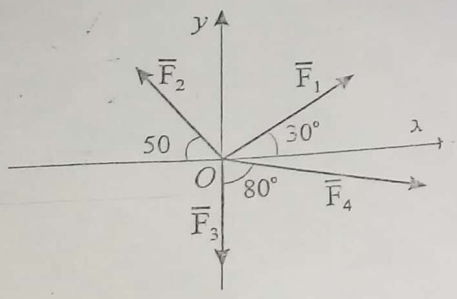
Рыс. 1.4.3



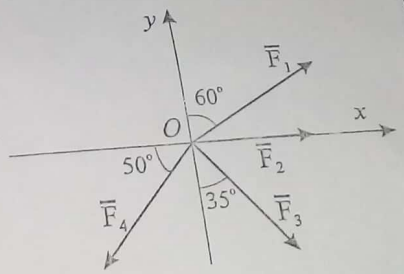
Рыс. 1.5.3



Рыс. 1.6.3



Рыс. 1.7.3



Рыс. 1.8.3