Remarks: See §3.1.7, page 64 till 68

Answers:

1. $R_x = -6$ kN ; $R_y = 0$ kN ; $R = 6$ kN

   $\alpha = 180^\circ$ (α is the angle that R makes with the positive x-axle)
   The line of action from R intersects the y-axle in $y = +6$ m

2. There's no resulting force (closed force polygon), but a resulting moment:
   $\sum T_z = +36$ kNm

3. $R_x = -18$ kN ; $R_y = 0$; $R = 18$ kN

   $\alpha = 180^\circ$ (α is the angle that R makes with the positive x-axle)
   The line of action of R intersects the y-axle in $y = +2$ m

4. $R_x = 0$; $R_y = -10$ kN ; $R = 10$ kN

   $\alpha = 270^\circ$ (α is the angle that R makes with the positive x-axle)
   The line of action of R intersects the x-axle in $x = +3$ m