Remarks: See §3.1.8 and §3.1.9, page 68 till 71

Hints:

1. The line of action of F_b (force through B) goes through the intersection of the Lines of action of F and F_a. You can solve this with a force polygon.

2. The Line of action of F_c (force through C) goes through the intersection of the Lines of action of F and F_a. A graphical solution is not immediately possible. First you've to calculate F_a out of the momentum around C.

Answers:

1. $F_a = 20\sqrt{5}$ kN ($\swarrow$); $F_b = 20\sqrt{2}$ kN ($\searrow$)

2. $F_a = 60\sqrt{5}$ kN ($\nearrow$); $F_c = 60\sqrt{10}$ kN ($\swarrow$)
$F_c = 50$ kN ($\nearrow$)