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

Hints:

Find F_a out of the moment equilibrium about the intersection of the Lines of action of F_b and F_c. After that you can calculate F_b and F_c out of a force polygon.

Answers:

$F_a = 22$ kN ($\leftarrow$)
$F_b = 6\sqrt{5}$ kN ($\nearrow$)
$F_c = 20$ kN ($\searrow$)