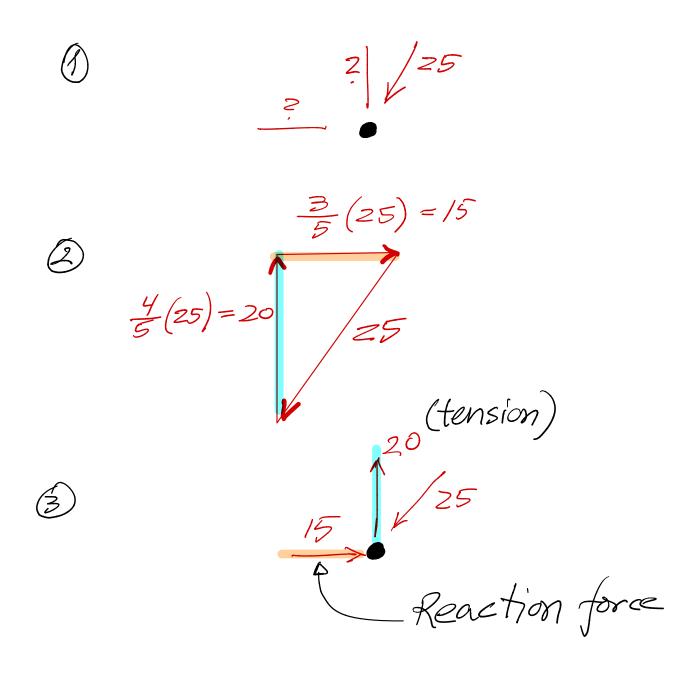
Example: Determinate truss

Objective: Using geometry to find truss member forces by trigonometry

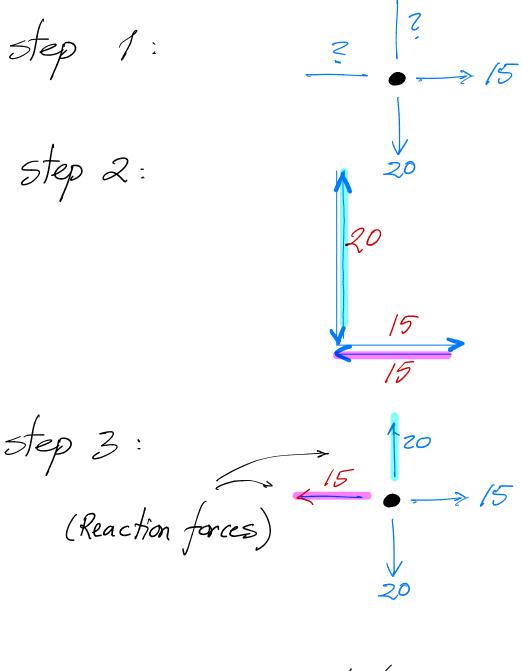
It is reasonable to start with by finding the reactions; however, it is not strictly necessary for this example, so skip that and go directly to a joint with two, or less, unknown forces.

3m 20kH Equilibrium at Joint C: 1: 5m 20 Step 2: 5(20)=25ky 20 Important to (20)=15 KN 15 (TE 3: 25 (com pr.)



Equilibrium at Joint B:

(We already have all the member forces from above, so this is unnecessary. However, we do here get the reaction force at A and another practice at joint equilibrium using geometry.)



Summarizing axial force diagram:

n: +15 km+20km-25 km