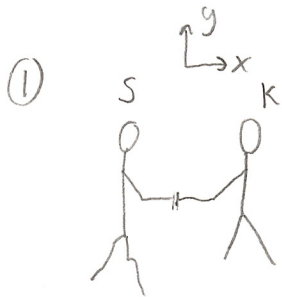


FORCES: 3RD LAW - FUNDAMENTAL EXAMPLE SOLUTIONS

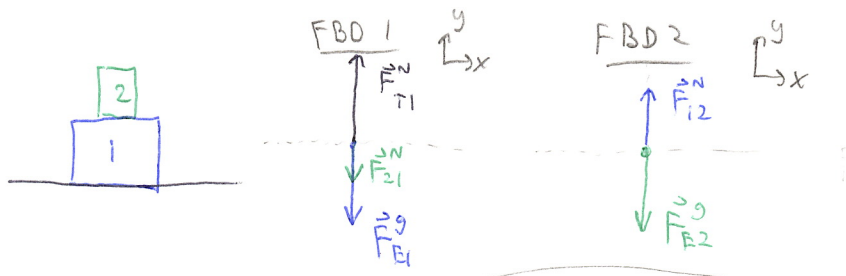


$$\vec{F}_{SK}^N = \langle 14, 0, 0 \rangle N$$

$\vec{F}_{KS}^N = ?$ 3RD LAW $\rightarrow |\vec{F}_{SK}^N| = |\vec{F}_{KS}^N|$ SO WITH AXIS DEFINED AS $\begin{matrix} y \\ \uparrow \\ x \end{matrix}$

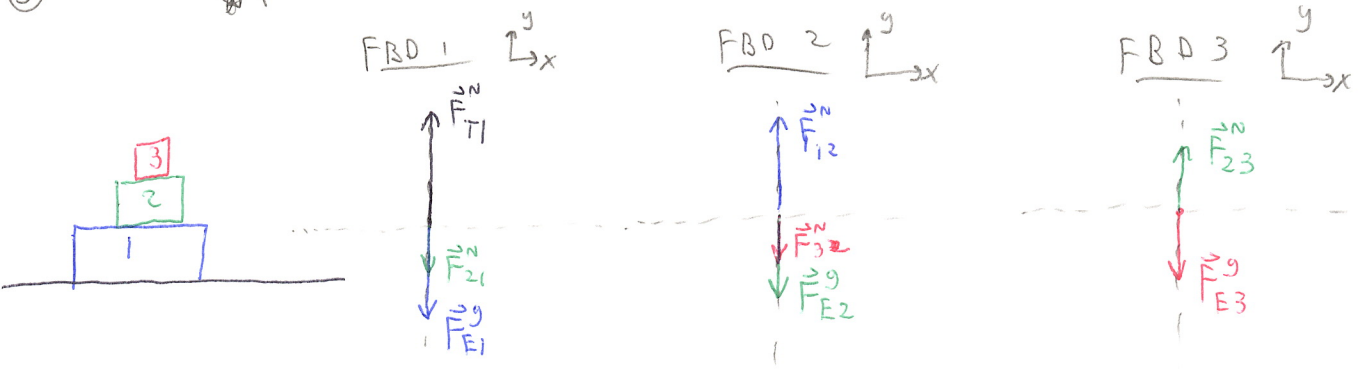
$$\vec{F}_{KS}^N = \langle -14, 0, 0 \rangle$$

② * FBDs NOT DRAWN TO SCALE



FORCE PAIRS: $|\vec{F}_{21}^N| = |\vec{F}_{12}^N| \rightarrow \vec{F}_{21}^N = -\vec{F}_{12}^N$

③ * FBDs NOT DRAWN TO SCALE



FORCE PAIRS: $|\vec{F}_{21}^N| = |\vec{F}_{12}^N| \rightarrow \vec{F}_{21}^N = -\vec{F}_{12}^N$
 $|\vec{F}_{32}^N| = |\vec{F}_{23}^N| \rightarrow \vec{F}_{32}^N = -\vec{F}_{23}^N$