While sitting in a chair, a person exerts the forces in the diagram below. Determine all forces acting on the chair at points A and B. (Assume A is frictionless and B is a rough surface).

\[ \sum F_X = 15 - F_{FB} = 0 \]
\[ \sum F_Y = F_{NA} + F_{NB} - 180 = 0 \]
\[ \sum M_B = (F_{NA})(18) + (180)(6) - (15)(36) = 0 \]
\[ F_{NA} = \frac{-(15)(36) + (180)(6)}{18} \]

\[ F_{NA} = 30 \text{ lbs} \]

\[ F_{FB} = 15 \text{ lbs} \]

\[ F_{NB} = 180 - F_{NA} \]

\[ F_{NB} = 150 \text{ lbs} \]