

supertank of  $1.5 \times 10^8$  kg has exerting a  $75 \times 10^3$  N Force against water drag at  $40 \times 10^3$ , calculate tensions in tug cables acceleration  $2 \times 10^{-3}$  m/s

$$1.5 \cdot 10^8 \cdot 2 \cdot 10^{-3} - 75 \cdot 10^3 - 40 \cdot 10^3 \cdot 2 \cdot 10^{-3} = 3 \cdot 10^5 - 75 \cdot 10^3 - 80 = 374,920$$