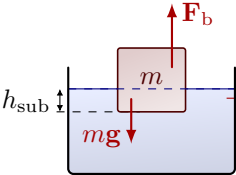
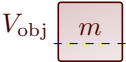


$$\mathbf{F}_2 \uparrow + \downarrow \mathbf{F}_1 = \uparrow \mathbf{F}_b$$
A diagram illustrating the addition of two forces. On the left, a red arrow labeled \mathbf{F}_2 points upwards. To its right is a grey plus sign. Further right is a red arrow pointing downwards, with the label \mathbf{F}_1 positioned below it. To the right of this arrow is a grey equals sign. On the far right is a red arrow pointing upwards, with the label \mathbf{F}_b positioned above it.



$$\rho_{\text{obj}} V_{\text{obj}}$$



$=$



