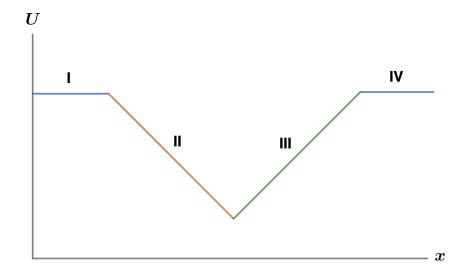
2010 F=ma Exam: Problem 18

Kevin S. Huang



Recall force is related to the potential energy by

$$F = -\frac{dU}{dx}$$

so force is given by the negative slope of the U-x plot. Part I and Part IV have zero slope so there is no force. Part II has slope -1 so the force is +1 N. Part II has slope +1 so the force is -1 N. Thus, the answer is $\boxed{\mathrm{E}}$.