A uniaxial bar, length L, cross-sectional area A, modulus E, is loaded in uniaxial tension by a force P.

The displacement, \( u_1 \), of a point a distance \( x_1 \) from the clamped end is most completely given by:

1. \( u_1 = \frac{PL}{AE} \)
2. \( u_1 = \frac{Px_1}{AE} \)
3. \( u_1 = \frac{Px_1}{AE} + \text{a constant} \)
4. \( u_1 = \int \frac{P}{AE} dx_1 \)
5. \( u_1 = \int \varepsilon_{11} dx_1 \)
6. Some other answer
7. I don't know/don't understand.
M1 Concept Question 1

The answer to the previous question is least correct at what point

1. $x_1=L$
2. $x_1=0$
3. $x_2, x_3 \neq 0$
4. $x_2, x_3 = 0$
5. It is correct everywhere in the bar
6. It is correct nowhere in the bar
7. I don't know/don't understand.