

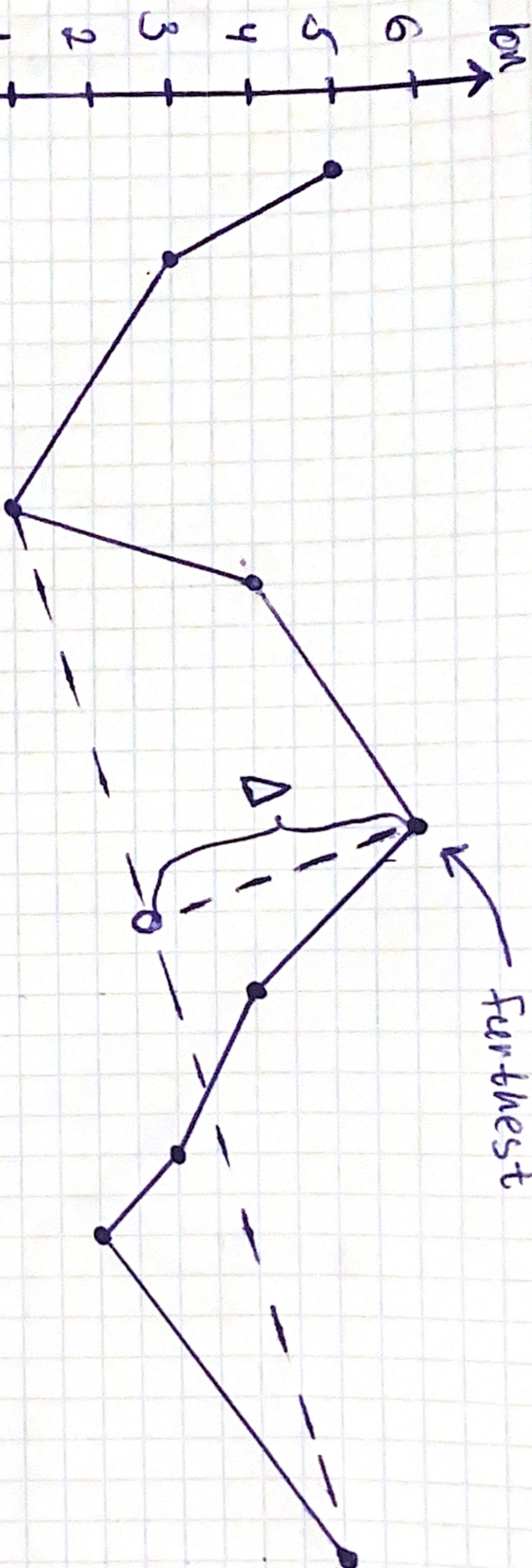
③

km

$$L = ((5, 1), (18, 6))$$

$$F = (9, 6)$$

furthest

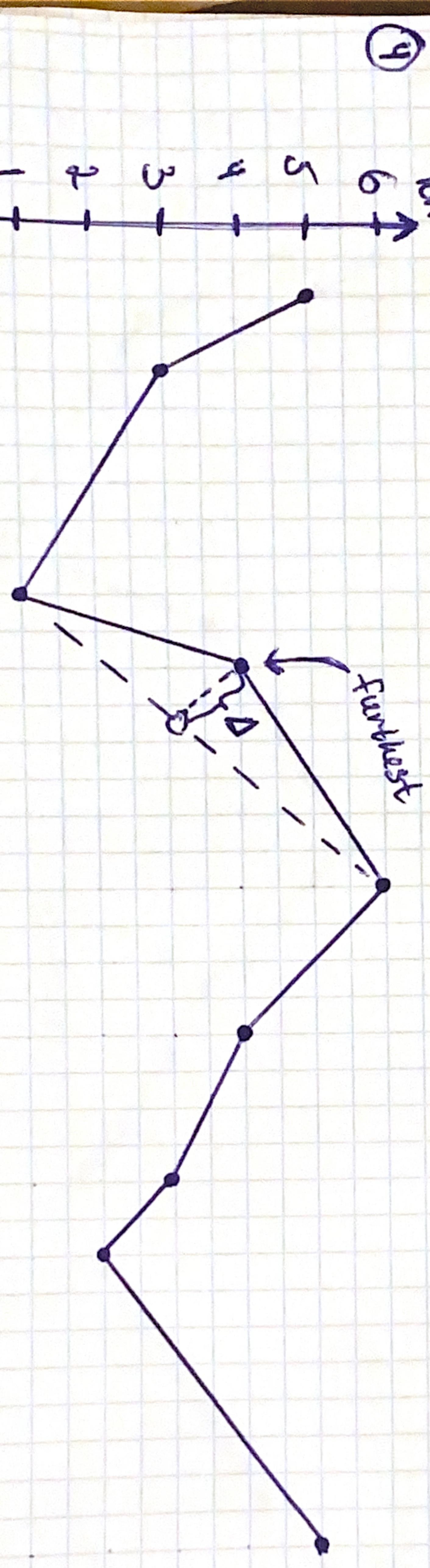


④

$$\text{distance}(L, F) = \frac{|(5-1) \cdot 9 - (18-5) \cdot 6 + 18 \cdot 1 - 5 \cdot 5|}{\sqrt{(5-1)^2 + (18-5)^2}} = \frac{|136 - 98 + 18 - 25|}{\sqrt{16+169}} = \frac{51}{\sqrt{185}} > \epsilon$$

$$L = ((5, 1), (9, 6))$$

$$F = (9, 6)$$



$$\text{distance}(L, F) = \frac{|(5-1) \cdot 6 - (9-5) \cdot 4 + 9 \cdot 1 - 6 \cdot 5|}{\sqrt{16+169}} = \frac{12}{\sqrt{185}} > \epsilon$$