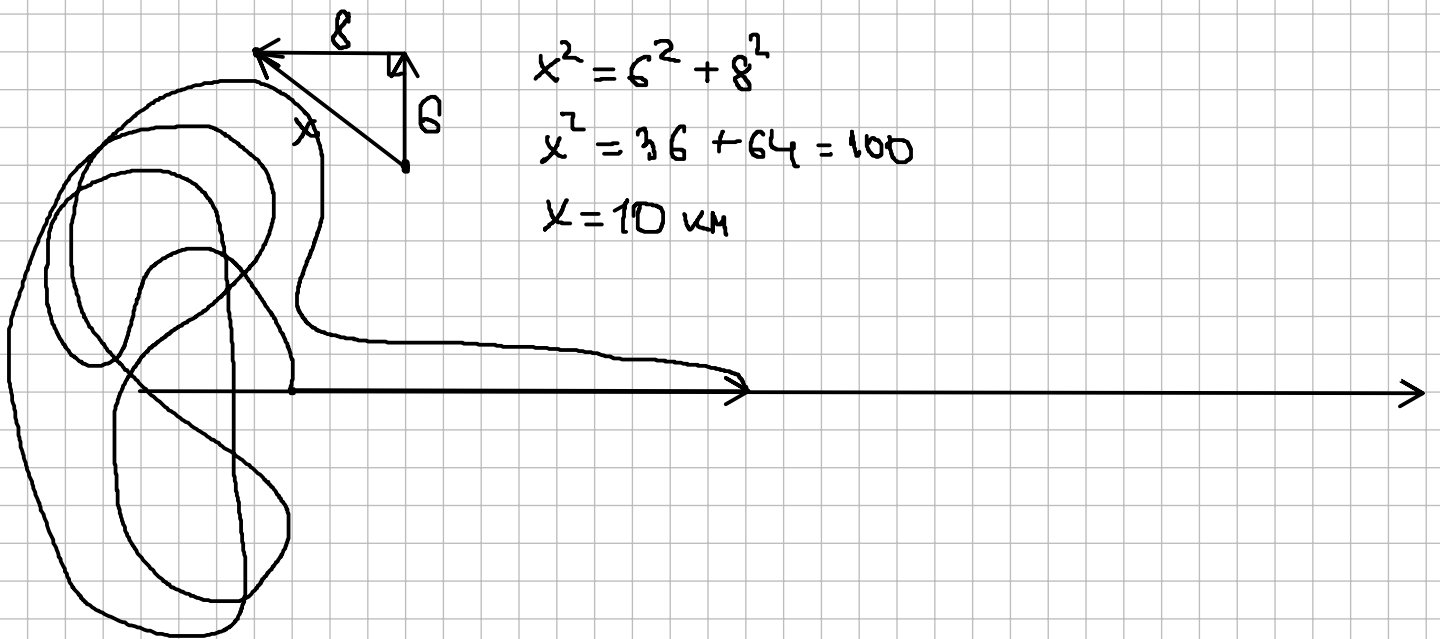


v_2 v_1

$$v_1 = 20 \frac{\text{m}}{\text{s}}$$

$$\Delta v = 10 \frac{\text{m}}{\text{s}}$$

$$v_2 = 30 \frac{\text{m}}{\text{s}}$$



$$x^2 = 6^2 + 8^2$$

$$x^2 = 36 + 64 = 100$$

$$x = 10 \text{ km}$$

