rates of change

distance

100 km

town b

a_1

town a

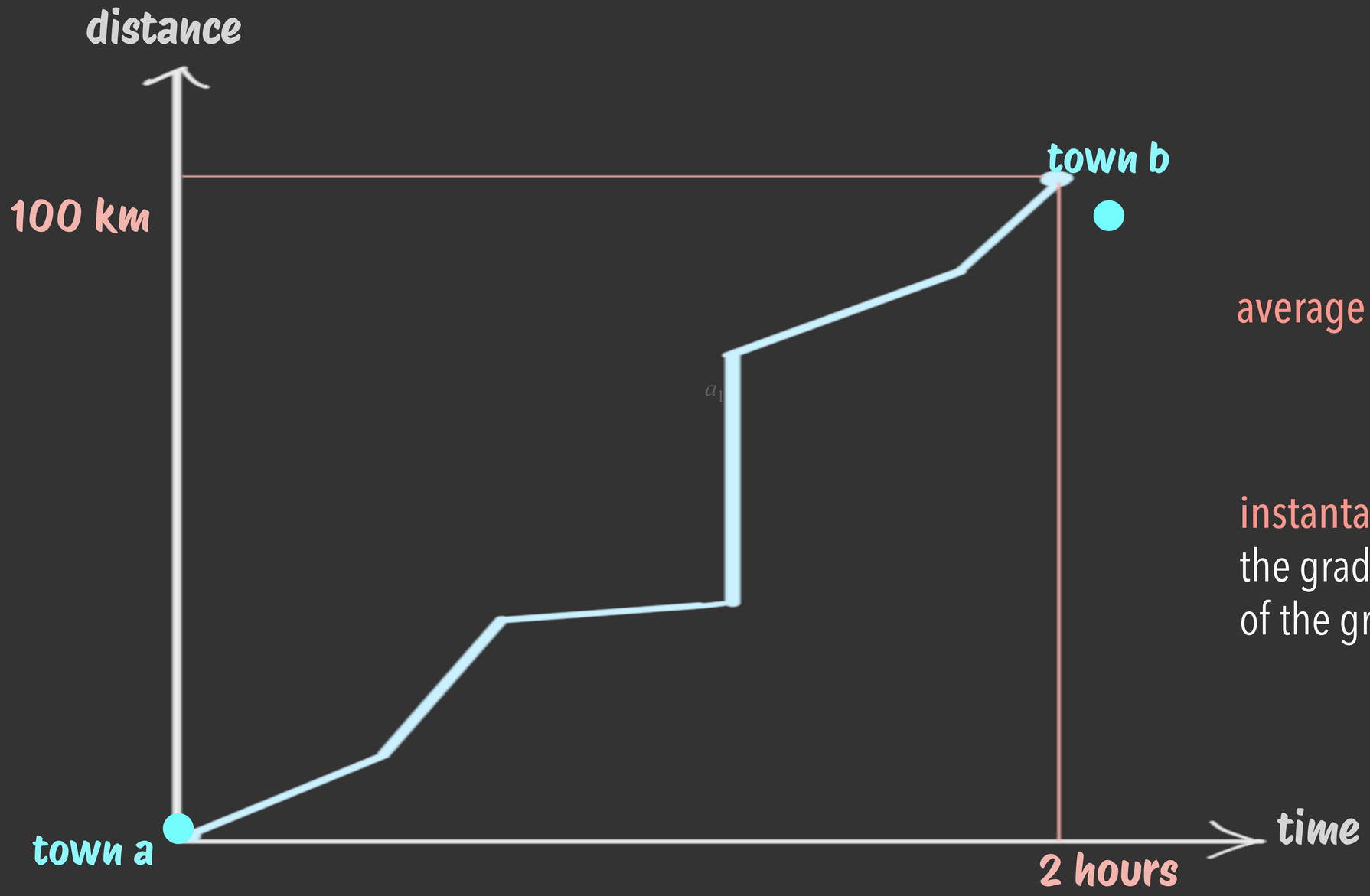
2 hours

time

average speed:

instantaneous speed:

rates of change



average speed: $\frac{100}{2} = 50\text{km/h}$

instantaneous speed:
the gradient (slope) "at a point"
of the graph

finding the slope at a point

we want to find slopes algebraically