



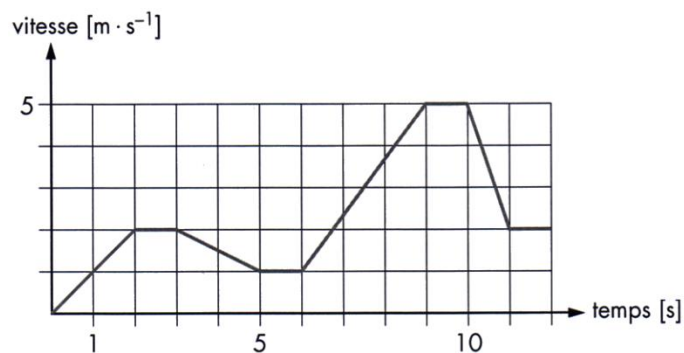
Test 2	Reading graphs
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conversion	velocity	average velocity	acceleration
$1 \text{ m/s} = 3.6 \text{ km/h}$	$v = \frac{d}{t}$	$v_{average} = \frac{v_1 + v_2}{2}$	$a = \frac{v_2 - v_1}{t}$

Exercise 1 Complete the graphics :

Situation	Position	Vitesse	Accélération
a) A car breaks before hitting me:	$x \text{ [m]}$ $t \text{ [s]}$	$v \text{ [m/s]}$ $t \text{ [s]}$	$a \text{ [m/s}^2\text{]}$ $t \text{ [s]}$
b) A runner starts to run:	$x \text{ [m]}$ $t \text{ [s]}$	$v \text{ [m/s]}$ $t \text{ [s]}$	$a \text{ [m/s}^2\text{]}$ $t \text{ [s]}$
c) I let fall a pen:	$x \text{ [m]}$ $t \text{ [s]}$	$v \text{ [m/s]}$ $t \text{ [s]}$	$a \text{ [m/s}^2\text{]}$ $t \text{ [s]}$
d) A cat goes away at constant velocity:	$x \text{ [m]}$ $t \text{ [s]}$	$v \text{ [m/s]}$ $t \text{ [s]}$	$a \text{ [m/s}^2\text{]}$ $t \text{ [s]}$
e) Nothing moves:	$x \text{ [m]}$ $t \text{ [s]}$	$v \text{ [m/s]}$ $t \text{ [s]}$	$a \text{ [m/s}^2\text{]}$ $t \text{ [s]}$

Exercise 2 The graph below gives the **velocity** of a mobile as a function of time:



a) What is the maximum velocity?

b) What is the minimum velocity?

c) What is the strongest braking?

d) What is the average velocity between 0 s and 2 s?

e) What is the acceleration between 2 s and 3 s?

f) What is the acceleration between 3 s and 5 s?

Exercise 3 Explain the race between a rabbit and a turtle in the following cases:

