

Name and surname class.....

WORKSHEET 6

Activity 12. Slowing down / Speeding up

12a) TOWARD the wall

Two people walk TOWARD the wall, starting from the same distance.

One of them walks slower and slower, and the other walks faster and faster.

Sketch both motions in the same coordinate system.

Use two different colours to draw both graphs.

Use the selected colours to highlight their descriptions

1. Person walking toward the wall slower and slower — line name: *sd* (slowing down)

2. Person walking toward the wall faster and faster — line name: *su* (speeding up)



Write down in your own words how you can tell from the graph when the movement towards the wall was getting slower and when it was getting faster.

.....

.....



This material is provided by the [EMPE Team](#), responsible institution: University of the National Education Commission in Krakow. Unless otherwise noted, this work and its contents are licensed under This work is licensed under a Creative Commons Licence [CC BY-NC-SA 4.0](#) Excluded are funding logos and CC icons / module icons.

The European Commission's support for the production of this publication does not constitute an endorsement of the contents, which reflect the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

12b) AWAY FROM the wall

Two people walk AWAY FROM the wall, starting from the same distance. One of them walks slower and slower, and the other walks faster and faster. Sketch both motions in the same coordinate system.

Use two different colours to draw both graphs.

Use the selected colours to highlight their descriptions.

1. Person walking away from the wall slower and slower — line name: *sd* (slowing down)

2. Person walking away from the wall faster and faster — line name: *su* (speeding up)



Write down in your own words how you can tell from the graph when the movement towards the wall was getting slower and when it was getting faster.

.....

.....



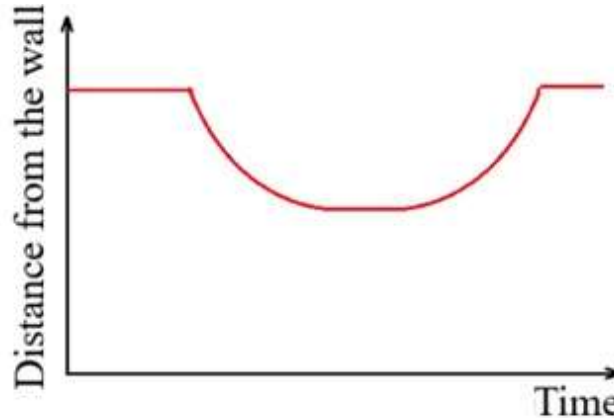
This material is provided by the [EMPE Team](#), responsible institution: University of the National Education Commission in Krakow.

Unless otherwise noted, this work and its contents are licensed under This work is licensed under a Creative Commons Licence [CC BY-NC-SA 4.0](#) Excluded are funding logos and CC icons / module icons.

The European Commission's support for the production of this publication does not constitute an endorsement of the contents, which reflect the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

Activity 13.

The graph shows a certain movement:



How many parts does the graph consist of?

Next to each line, write a number that indicates the next part of the movement.

Describe this movement:

First, **write down the number** representing the part of the movement, and **then describe** it using the glossary below:

.....

.....

.....

.....

.....

GLOSSARY

I'm going from the wall

I am walking slower and slower

the distance remains the same

I am walking faster and faster

I am walking towards a wall

I am walking at a steady pace



This material is provided by the [EMPE Team](#), responsible institution: University of the National Education Commission in Krakow.

Unless otherwise noted, this work and its contents are licensed under This work is licensed under a Creative Commons Licence [CC BY-NC-SA 4.0](#) Excluded are funding logos and CC icons / module icons.

The European Commission's support for the production of this publication does not constitute an endorsement of the contents, which reflect the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

Check – make your move with the sensor

Does your description match the sensor reading?

Underline your answer.

YES NO

Write your answer:

What did you do wrong in your first attempt?

.....
.....

Why do you think that was?

.....
.....



This material is provided by the [EMPE Team](#), responsible institution: University of the National Education Commission in Krakow.

Unless otherwise noted, this work and its contents are licensed under This work is licensed under a Creative Commons Licence [CC BY-NC-SA 4.0](#) Excluded are funding logos and CC icons / module icons.

The European Commission's support for the production of this publication does not constitute an endorsement of the contents, which reflect the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.