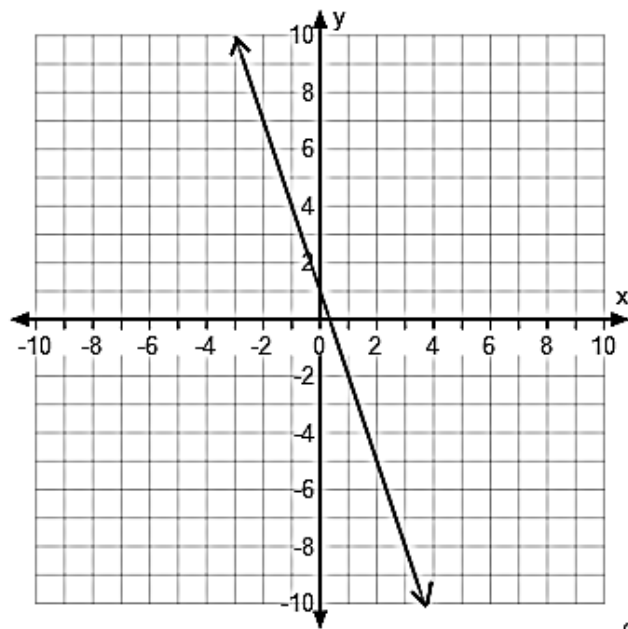


Unit 5 Lesson 3 Slope as a Rate of Change

Warm Up:

Determine the slope of the line given in the graph to the right.



Unit 5 – Linear Relations I
Day 3 - Slope as a Rate of Change (5.4)

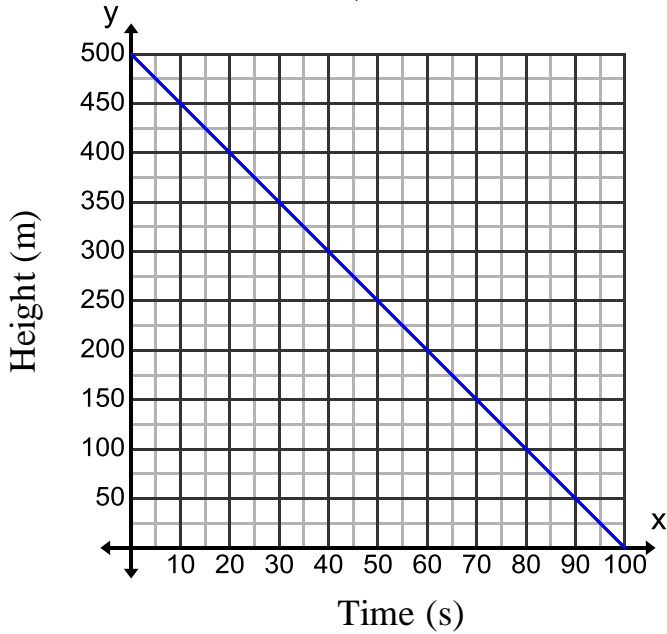
Recap: Slope formula –

Ex. 1 Sue drove 325 km in 3.5 hours.
What is the rate of change of distance from Sue's starting point?

Ex. 2 A 5 year old sleeps an average of 11 hours a night, whereas a 25 year old sleeps an average of 8 hours a night. What is the rate of change of hours.

Unit 5 Lesson 3 Slope as a Rate of Change

Ex. 3 The graph shows the relationship between the height of a parachutist, in metres, and the time of descent, in seconds.



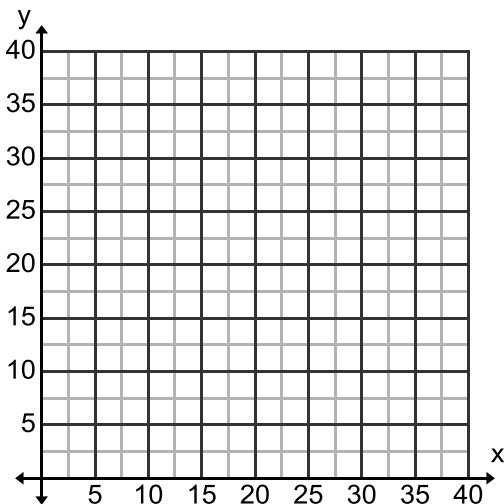
a) Calculate the slope. (watch the scale)

b) Interpret the slope as a rate of change.

Ex. 4 Christina pays her internet bill based on hours of use. For one month, Christina was on-line for 15 hours and was billed for \$23.75. The next month, she was on for 27 hours and her bill was \$38.75. Assume this is a linear relationship. Determine the rate of change and interpret its meaning in the context of the question.

Method 1:

a) Graph the cost per hour



Method 2:

Determine the slope of the line using the two given points

b) Determine the slope of the line.