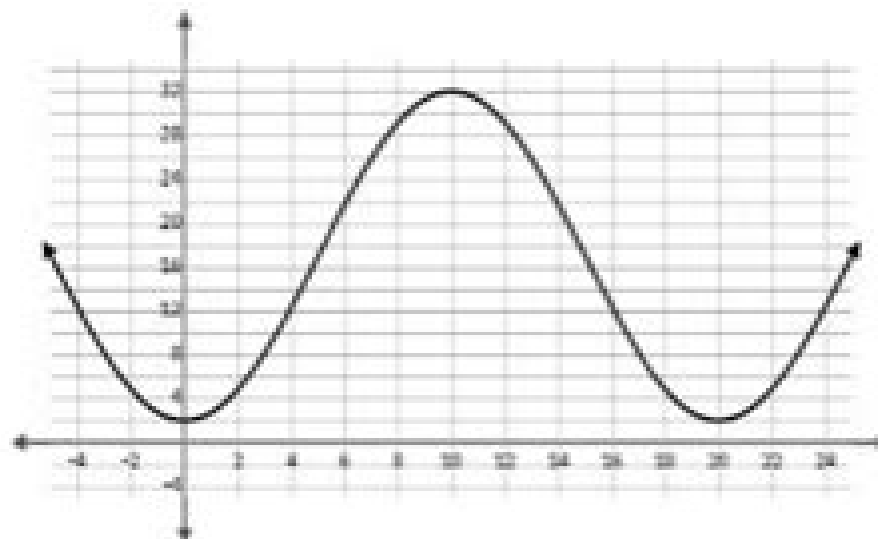


## Part 2 – Sinusoidal Word Problem – 8 marks

The graph shows a rider's height, in metres, on a Ferris wheel in terms of time, in minutes.



- a) What are the maximum and minimum heights for the rider?
- b) Write an equation for the rider's height,  $h(t)$ , in terms of time.
- c) Write an equation for  $h'(t)$ .
- d) At what rate is the rider's height changing when  $t = 4$ ?  $t = 28$ ?
- e) Is the rider's height increasing or decreasing when  $t = 15$ ? How quickly is it changing?
- f) What is the maximum rate at which the rider's height is changing?

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