Topic: Gradient of a Curve

ACCESS MATHS

FEEDBACK

ACTION

RESPONSE

Fluency

Find the gradient of the straight line through these points.

1. (1,1) and (5,9)
2. (2,6) and (8,2)
3. (-2,-1) and (1,5)
4. (-2,1) and (1,-2)
5. (1,-2) and (2,4)
6. (0,-3) and (-2,5)

Reasoning

Draw the graph of $y=x^2$ for values of x from -4 to 4. Try to fill a whole page.

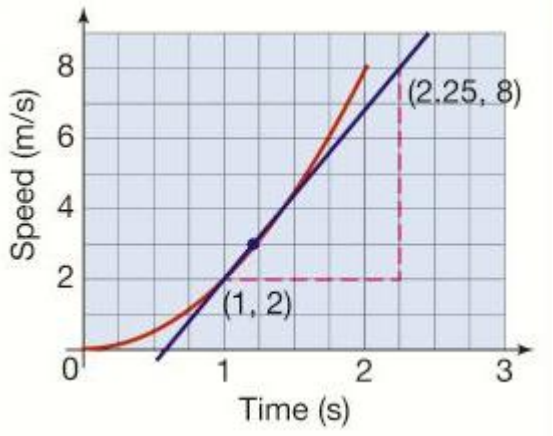
Find the gradient of the tangent to the curve at these points:

(a) $x = 1$ (b) $x = 3$ (c) $x = -1$ (d) $x = -2$

Problem Solving

The speed and time graph shows information about a runner during the first 2 seconds of a race.

What was the runner's acceleration at 1.25 seconds?



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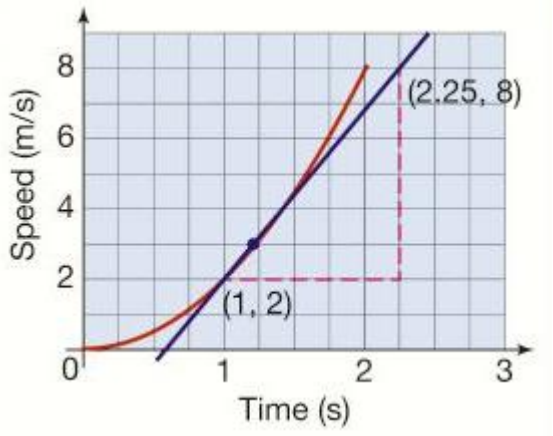

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