GRAPH – 1 24
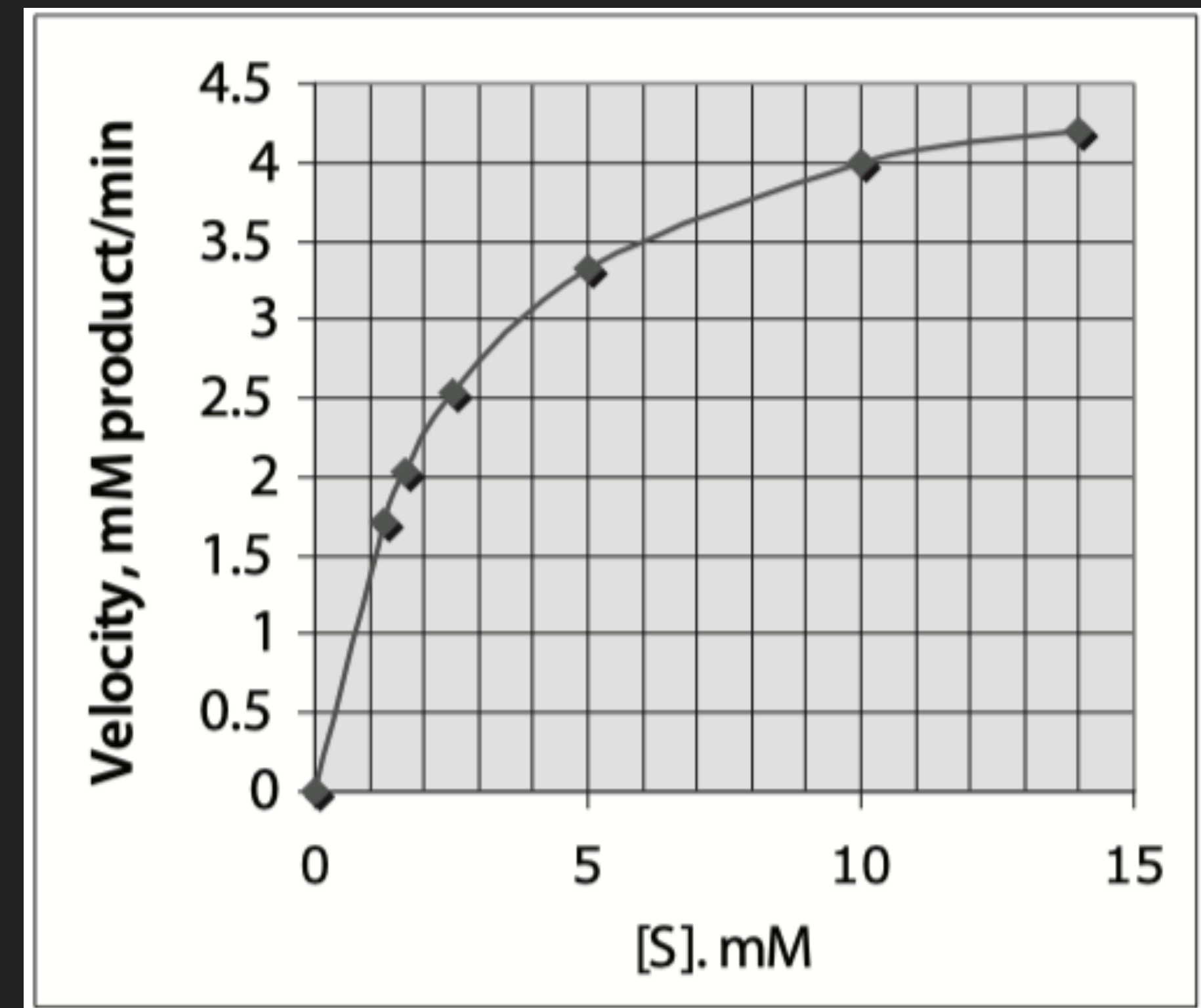
‣ What is the K_M value as you can estimate from Graph 1 ?

‣ $V_{max} \approx 4.5$
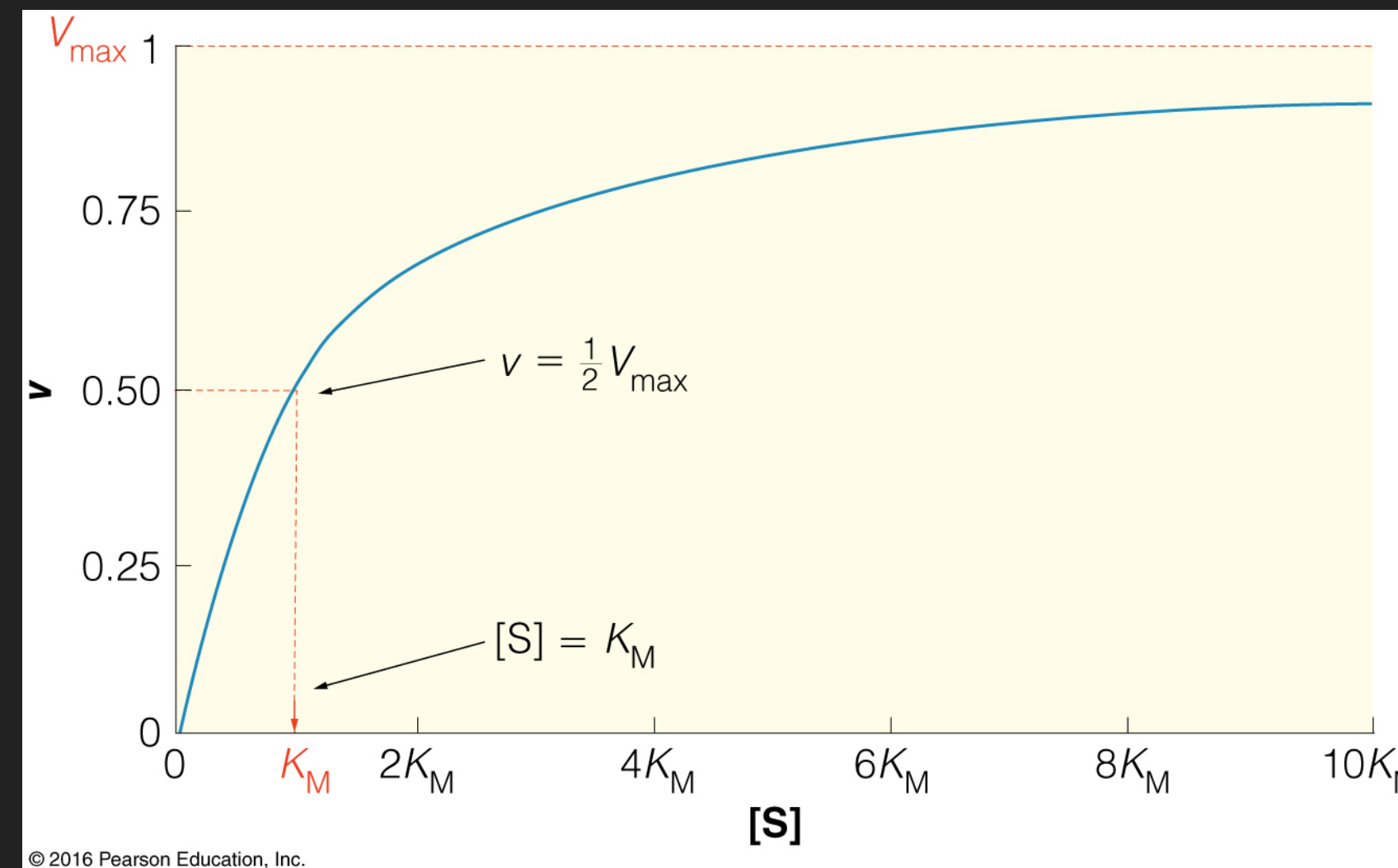
‣ $\dfrac{V_{max}}{2} = 2.25$

‣ $\therefore K_M \approx 2.25$

‣ As K_M INCREASES , the curve shifts Left

‣ As K_M DECREASES , the curve shifts Right

▸ When we plot the velocity of an equation against the substrate concentration we get the following curve:

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▸ As [S] increases , the reaction goes from 1st Order to 0th Order

▸ As [S] increases, we reach a maximal velocity , aka V_{max}

  ▸ This is due to enzyme saturation