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| **Differentiation Revision** | | | | | |
| **(a)** | **(b)** | | **(c)** | | **(d)** |
| Find | Find | | Find when | | Find when |
| **(e)** | **(f)** | | **(g)** | | **(h)** |
| Find the value of when | The gradient of the curve  at the point where is . Find the value of . | | Find the coordinates of the minimum point of the curve | | The distance of a particle is given by . Find the velocity and acceleration at time  seconds |
| **(i)** | | **(j)** | | **(k)** | |
| A curve with equation  has two turning points. Work out the coordinates of the turning points. | | Find the range of values for which the gradient of the curve  is negative | | A rectangle has a perimeter of 120 cm. Given that the length of the rectangle is , show that the area  Hence find the length that gives the maximum area of the rectangle. | |