Question 13	(5 marks)
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A particle travels in a straight line so that its velocity v cm/sec and displacement x cm are related by the equation:

$$v = \frac{2}{x}$$

(a) Determine the acceleration a in terms of its displacement x. (2 marks)

It is known that the initial displacement of the particle is x = 2 cm.

(b) Determine the displacement x as a function of time t. (3 marks)