



8. At time  $t$  seconds, the radius of a spherical balloon is  $r$  cm. The balloon is being inflated so that the rate of increase of its radius is inversely proportional to the square root of its radius. When  $t = 5$ ,  $r = 9$  and, at this instant, the radius is increasing at  $1.08 \text{ cm s}^{-1}$ .

(a) Write down a differential equation to model this situation, and solve it to express  $r$  in terms of  $t$ . [7]

$$\frac{dr}{dt} = \frac{k}{\sqrt{r}}$$

$$\frac{dt}{dr} = \frac{\sqrt{r}}{k}$$

$$\int k dt = \int r^{1/2} dr$$

$$kt = \frac{2r^{3/2}}{3} + c$$

$$t=5, r=9$$

# Ocr C4 June 2013 Answers

**Sebastian Brünink**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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