4 The coordinates of points A, B, C and D are as follows.

$$A(-4, 3) \quad B(6, -9) \quad C(15, 10) \quad D(14, -1)$$

The line L has equation $y = 11x - 75$.
The perpendicular bisector of the line AB meets L at the point E.

Find the area of triangle CDE. [7]

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5 Given that $y = x^2 \tan\frac{x}{2}$, use calculus to find the approximate change in y as x increases from $\frac{\pi}{3}$ to $\frac{\pi}{3} + h$, where h is small. [4]

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