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2. The ellipse D has equation $\frac{x^2}{25} + \frac{y^2}{9} = 1$ and the ellipse E has equation $\frac{x^2}{4} + \frac{y^2}{9} = 1$.

(a) Sketch D and E on the same diagram, showing the coordinates of the points where each curve crosses the axes.

(3)

The point S is a focus of D and the point T is a focus of E .

(b) Find the length of ST .

(5)



