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$$5x - x^2 = x(5 - x)$$

$$[x = 0], \quad x = 5$$

The line does not go through the origin so  $x = 5$

$$y = 4 - kx \text{ so } 0 = 4 - 5k$$

$$k = \frac{4}{5}$$

$$4 - \frac{4}{5}x = 5x - x^2$$

$$x^2 - 5\frac{4}{5}x + 4 = 0 \text{ OR } 5x^2 - 29x + 20 = 0$$

$$(5x - 4)(x - 5) = 0$$

$$\left(\frac{4}{5}, \frac{84}{25}\right) \text{ o.e.}$$

**M1****3.1a****DR**

Factorisation

**A1****1.1**

Finding 5

**E1****2.4**

Rejection of origin as a point where they cross

**M1****3.2a****A1****1.1****M1****1.1****M1****1.1****A1****2.2a**

$$\frac{84}{25} = 3\frac{9}{25} = 3.36$$

**[8]**

May be later