1 Solve the inequality $|5x+2| \geqslant 3$. [4]

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2 In this question, all lengths are in metres and time is in seconds.

A particle P moves in a straight line such that its displacement s from a fixed point O at time t is given by $s = (t-4)^2(t-1)$ for $t \geqslant 0$.

(a) On the axes, sketch the displacement–time graph of P, stating the intercepts with the axes. [2]



(b) Find an expression for the velocity, v, of P.
Give your answer in a factorised form. [2]

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