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parked car and within 5 seconds reaches a speed of 60 km/h as he travels east

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solution average velocity $\bar{v} = \frac{\Delta x}{\Delta t}$ is displacement divided by the elapsed time displacement is also a vector that obeys the addition vector rules thus in this velocity problem add each displacement to get the total displacement in the first part displacement is $\Delta x = 1750 \hat{j}$ and for the

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we do not include direction in the answer we can check the reasonableness of the answer by estimating 5 meters divided by 2 seconds is 2.5 m/s since 2.5 m/s is close to 2.9 m/s the answer is reasonable this is about the speed of a brisk walk so it also makes sense

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