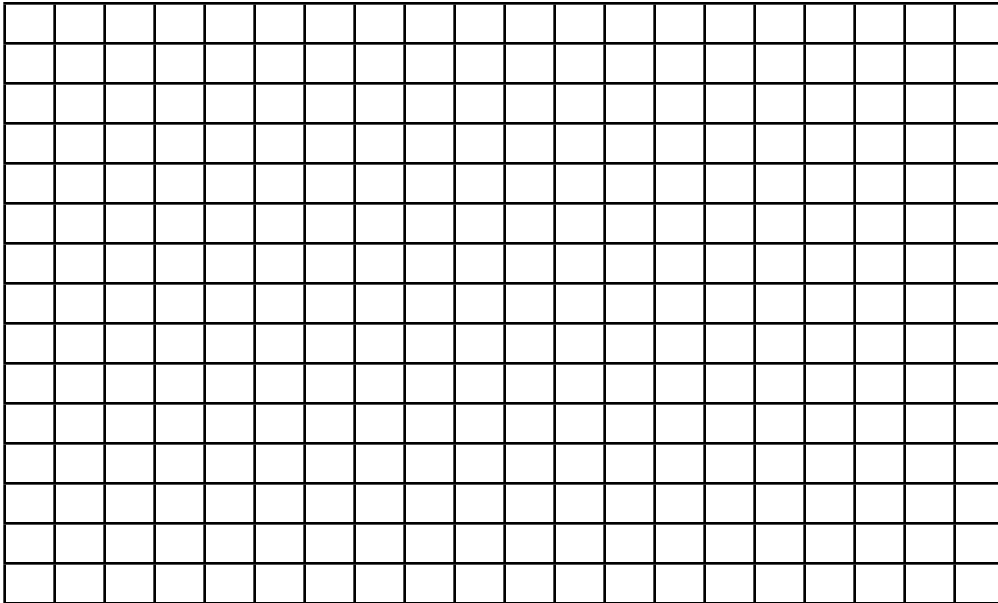
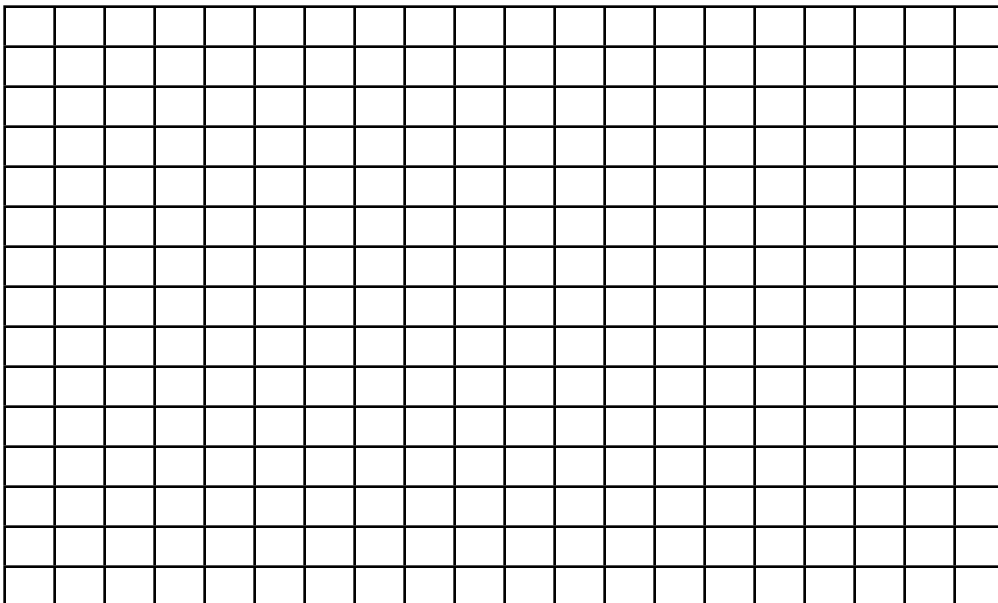


1.a) Plot a **position time** graph for the following situation:

Laura gets on her bike, sets her watch and she starts to ride north along a straight road. After 1 minute of steady acceleration, she is traveling at a constant speed of 5m/s. She maintains her speed and continues to travel north for 25 minutes. She then slows down steadily over 2 minutes and stops.

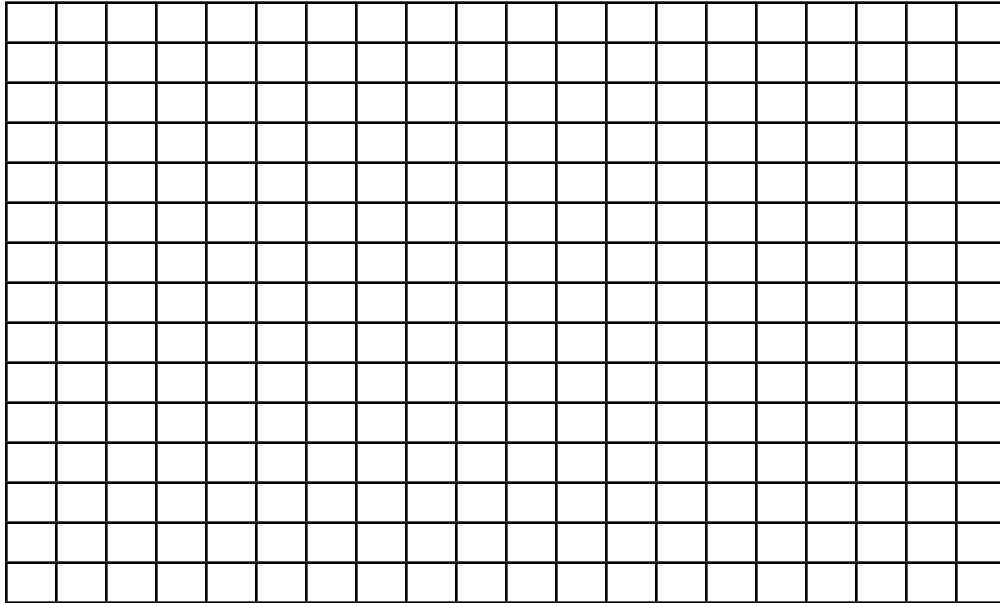


b) Draw a **velocity time** graph for the same situation

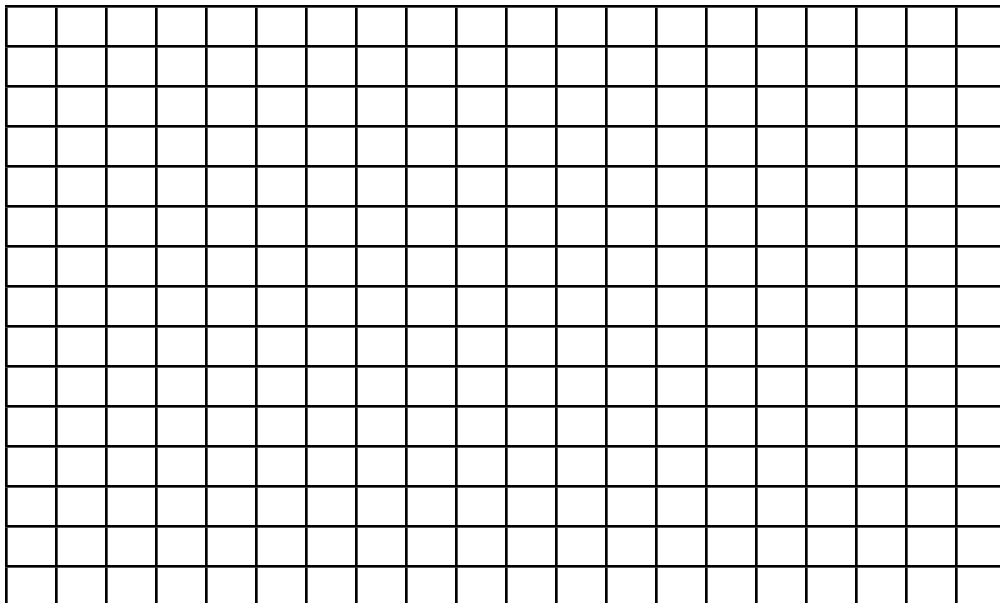


2.a) Plot a **position time** graph for the following situation.

Dan starts his watch while walking east at a speed of 1 m/s. He walks at this speed for 25 seconds. He then gradually slows down over 1 second and stops for 5 seconds. He then speeds up gradually over 1 second, and runs west at a speed of 2 m/s for 40 seconds.

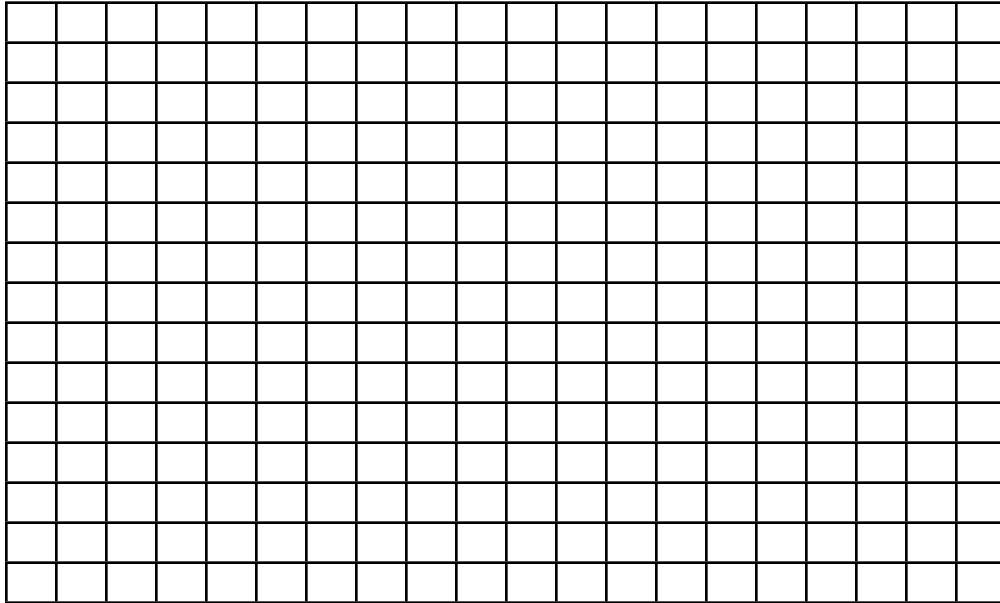


b) Plot a **velocity time** graph for the same situation



3. Nick drops his science book off of the roof of the school. It starts from rest (0m/s), and speeds up by 10m/s every second that it falls. It falls for 2 seconds in total, and then instantly stops when it hits the ground.

a) Draw a position time graph for the following.



b) Draw a velocity time graph for the same situation

