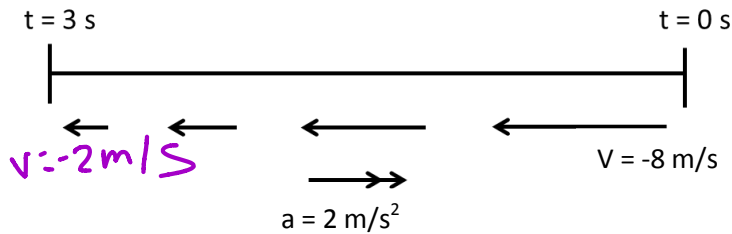


Worksheet 1.5

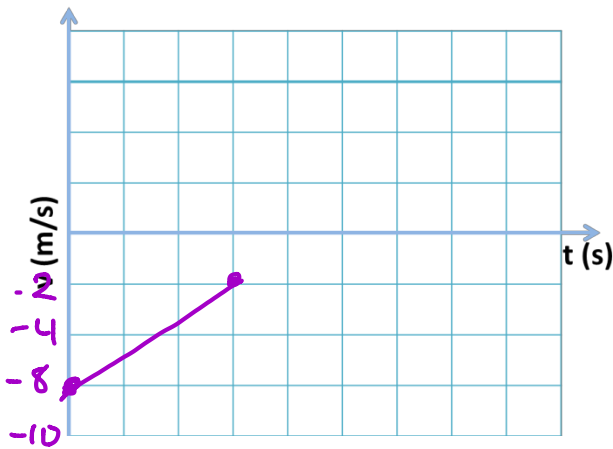
For each of the problems below, draw the v vs. t graph that corresponds to each motion diagram. Be sure to accurately label the units of your axis.

1.



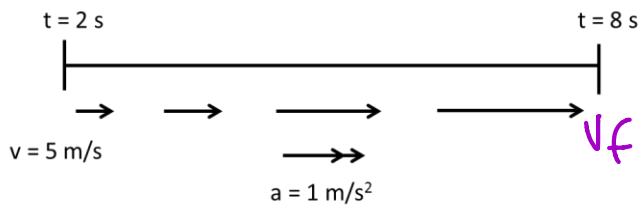
$$\frac{V_f - v_i}{t_f - t_i} = \frac{-8 - (-2)}{3 - 0} = 2 \text{ m/s}^2$$

2.



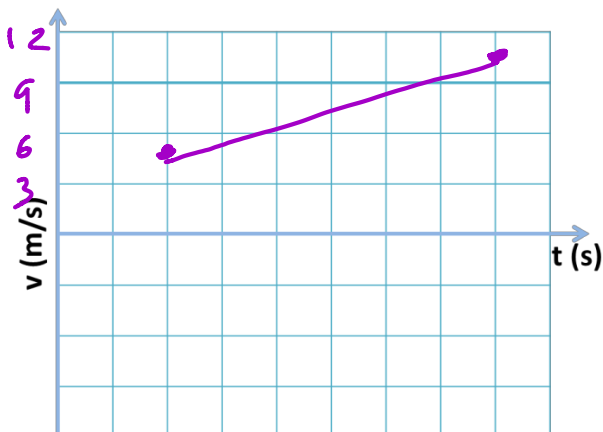
1. Find end points
2. Connect end points

3.

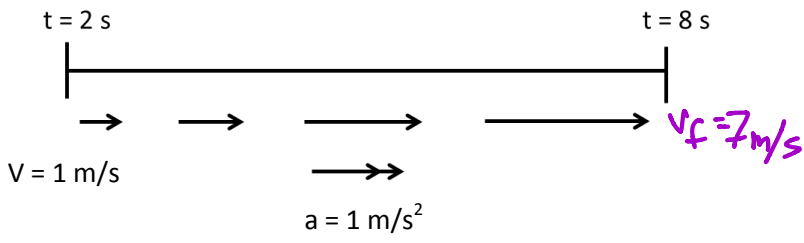


$$1 = \frac{V_f - 5}{6 \text{ s}}$$

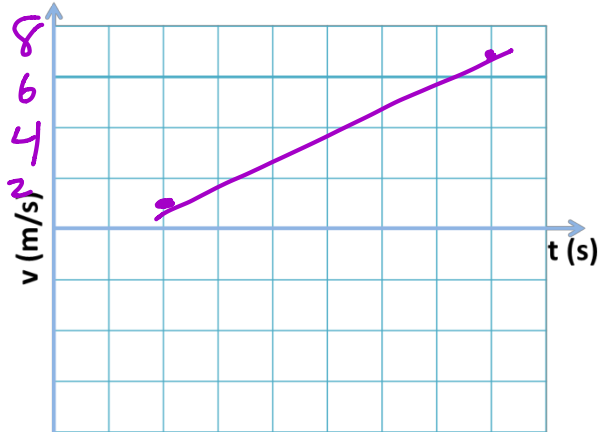
$$V_f = 11 \text{ m/s}$$



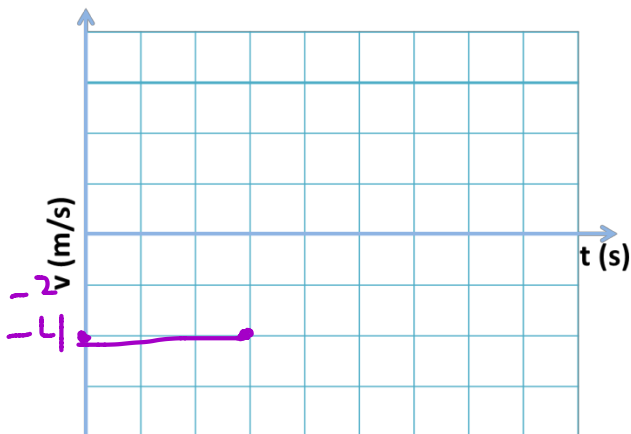
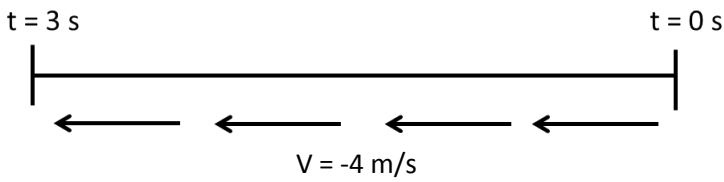
4.



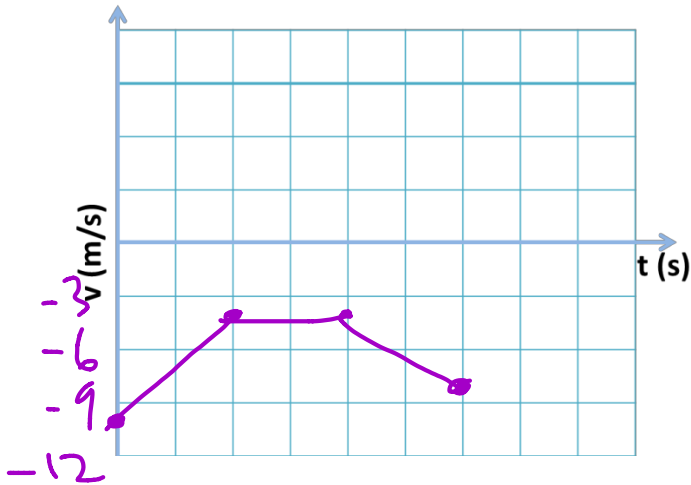
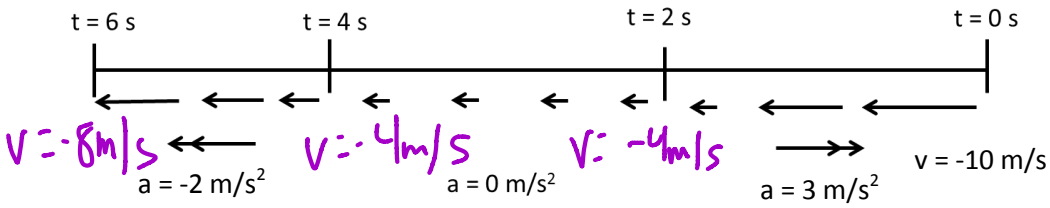
$$1\text{ m/s}^2 = \frac{v_f - 1\text{ m/s}}{6\text{ s}}$$
$$v_f = 7\text{ m/s}$$



4.

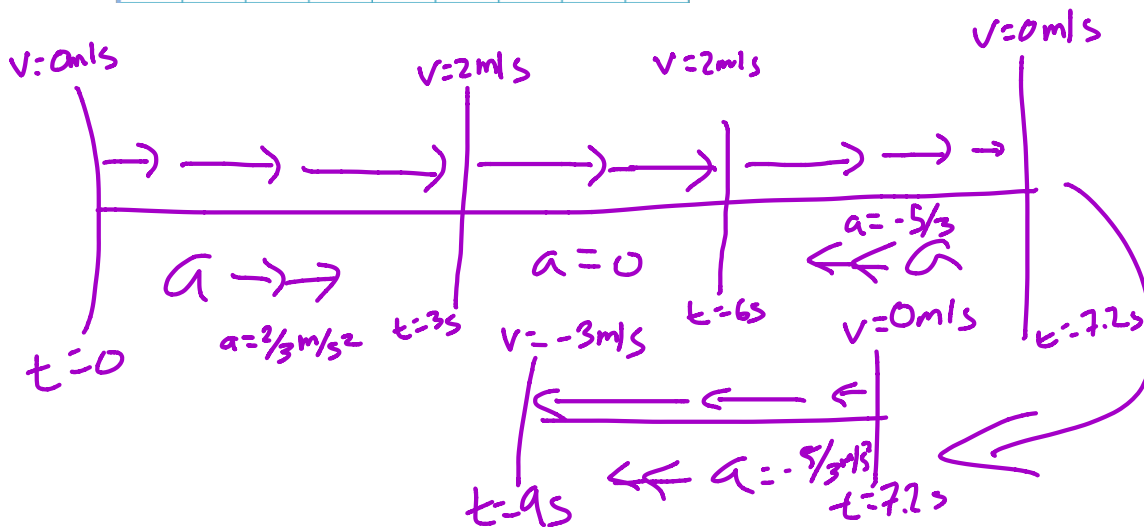
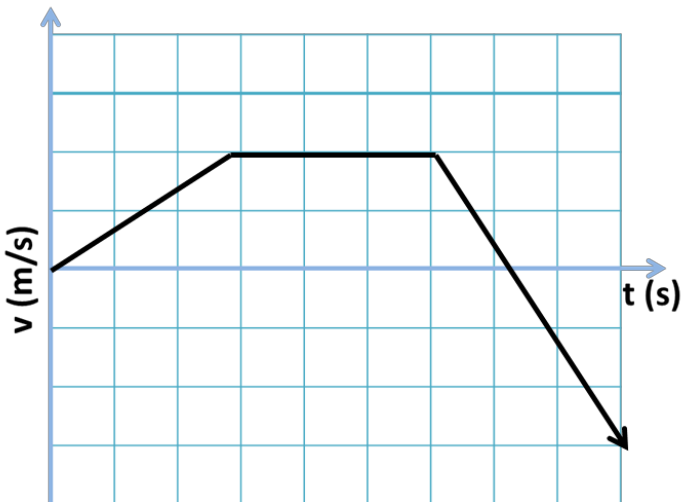


5.

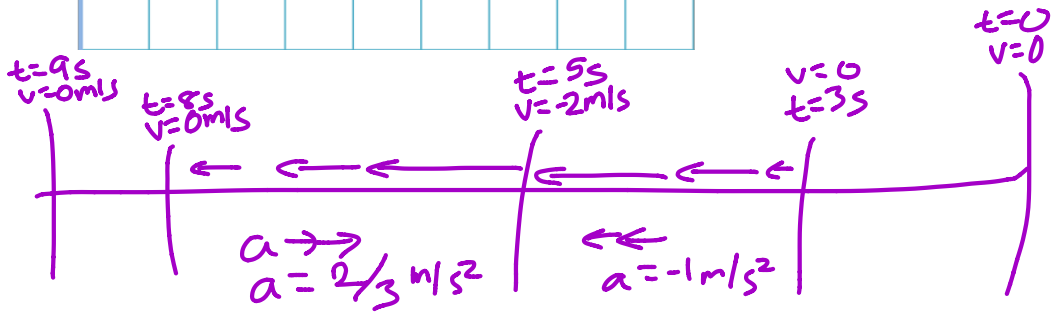
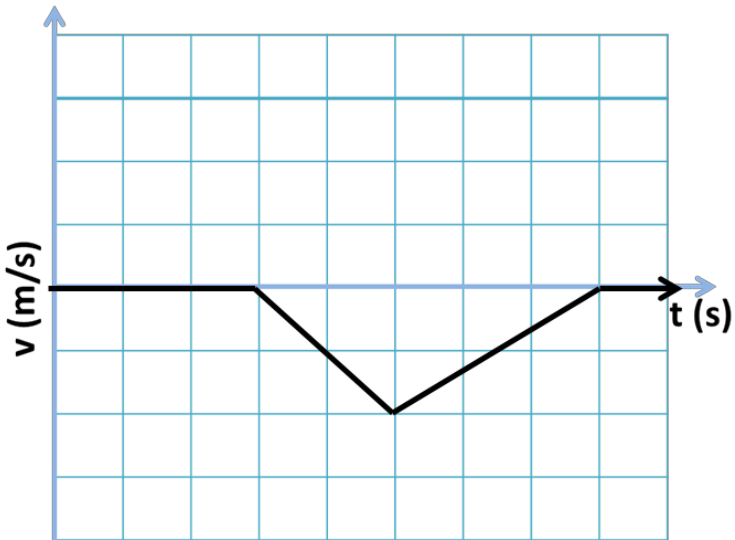


Draw the motion diagram for each of the v vs. t graphs below.

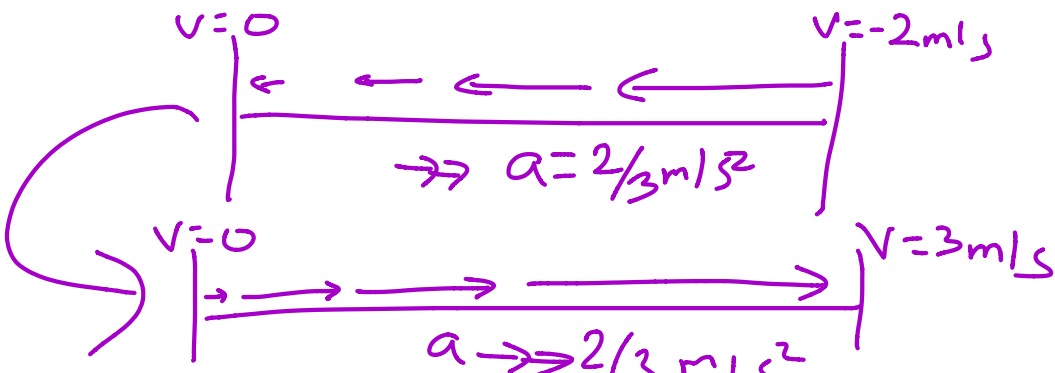
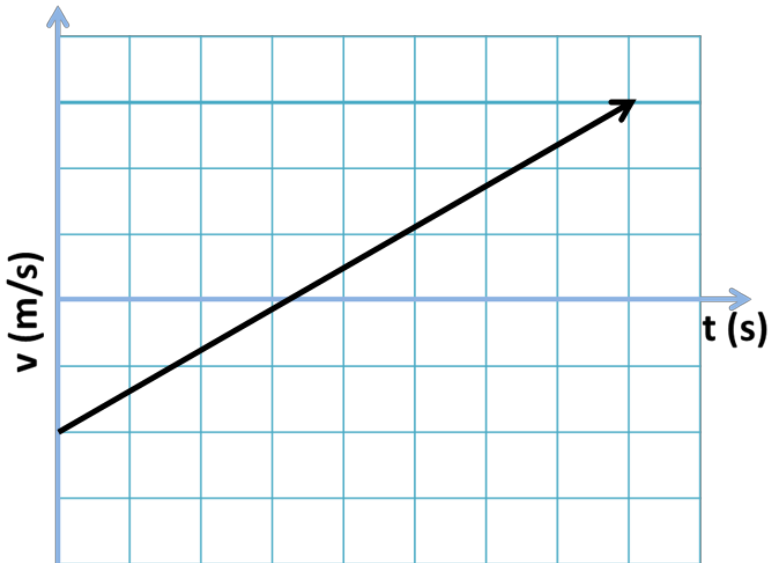
6.



7.



8.



15 12 13