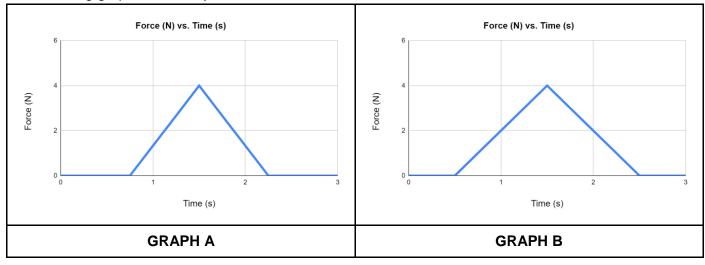
## Graph Review for the Assessment

Name\_\_\_\_\_

The following graphs are of objects that collided with a wall.



1. Which object will have more damage after colliding with the wall and why?

2. Impulse is equal to the area under the curve (½ bh). Calculate the impulse for each graph. Does this confirm your ideas from the previous question? Explain.

3. Using the equation I=mv<sub>f</sub> -mv<sub>i</sub> calculate the initial velocity for the graphs if the mass of the object in motion is 1 kg and the object comes to rest after the collision.

GRAPH A	GRAPH B

4. Translate the force vs. time graph into a velocity versus time graph. The time of the motion should happen over the same time as the F vs t graphs and you can use your answers from question 3 to help.

