Math 30-2 Drop Lab names:

Design an experiment that will measure the height from the top of the railing to the ground floor below.

Use the equation , which gives the height of an object in metres after  seconds. (read h-naught) is the height of the object at time 0.

1. Describe how you are going to conduct your experiment and calculate the unknown height. (2 marks)
2. Conduct your experiment a few times until you are confident with the result. Record your results. (1 mark)
3. What is the railing height? Show your calculations. (3 marks)
4. What degree is the polynomial ? (1 mark)
5. What does the y-intercept of  represent? (1 mark)

1. Draw a graph of the height of your object vs time. Remember to include units. (3 marks)

1. Reflections: How accurate was this experiment? How could you improve it’s design? (2 marks)