Today's Learning Goal(s):

By the end of the class, I will be able to:

a) represent and interpret quadratic functions in a number of different forms.
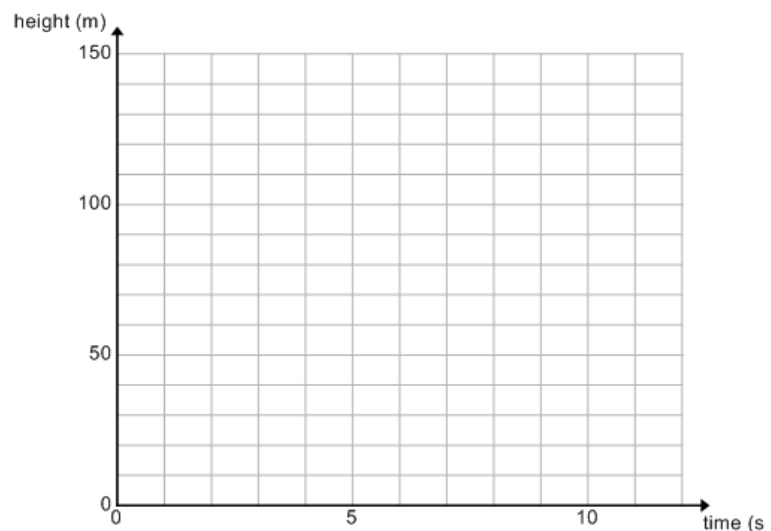
3.1 Properties of Quadratic Functions

Date: _____

Ex. 1: A rocket is launched. It's height is given by the following table.

t (sec)	0	1	2	3	4	5	6	7	8	9	10
height (m)	0	44.1	78.4	102.9	117.6	122.5	117.6	102.9	78.4	44.1	0

a) What type of relation is this? How can you tell?

b) Graph the relation.

c) Find the equation of the relation.

Vertex form   Factored form

the equation is   the equation is

Ex. 2: For the relation, create a difference table and use it to find the equation.

x	0	1	2	3	4	5	6
y	15	0	-9	-12	-9	0	15