

7] We throw an	object upward	from the top	of a b	ouilding.	The height	of the ob	ject, (measured	lin
feet) t seconds a	after we threw i	t is h(t) = -10	6(t-5)	$)^2 + 1600$).				

- a) How tall is the building?
- b) How many seconds after it was thrown will the object start to fall?
- c) What is the maximum height the object reaches?
- d) How many seconds does it take for the object to hit the ground?
- 8] The function $y = -0.2(x 14)^2 + 5$ models the jump of a red kangaroo where x is the horizontal distance (in meters) and y is the corresponding height.
- a) What is the kangaroo's maximum height?
- b) How long is the kangaroo's jump?