We are standing on the top of a 1680 ft tall building and throw a small object upwards. At every second, we measure the distance of the object from the ground. Exactly t seconds after we threw the object, it’s height (measured in feet) is h(t) = -16t2 + 256t + 1680.

1. Find h(3). This represents the object’s position 3 seconds after we threw it.
2. How much does the object travel during the two seconds between 5 seconds and 7 seconds?
3. How long does it take for the object to reach a height of 2640 ft?
4. How long does it take for the object to hit the ground?

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