Hickam Proof 5

5 point assignment - Due Friday

I thought of this problem from a memory I had of when I was in 8 th grade and n	ny father had an
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in-ground pool put in at our house. I remember that once it was built, it took an awful long time to fill up with water. From this memory, I now have a new proof for you. Remember to write in complete sentences.

Assume that a swimming pool is 20 feet wide by 40 feet long with a consistent depth of 8 feet. In order to fill the pool with water, I will use a water hose that puts out 1 gallon of water every 9 seconds. How long will it take to fill the pool up with water knowing that 1 ft³ \approx 7.5 gallons (rounded the number to make the problem easier for you – I am so nice!)? Give me the answer rounded to the nearest number of hours it will take to fill up the pool.