- 7. [13 points] A video is posted on the internet. At 2 pm, the video had 2400 views. By 5 pm, the video had 4000 views. Let V(t) the number of views t hours after noon. Assume that V(t) grows exponentially.
 - **a**. [5 points] Find a formula for V(t). You must find this formula algebraically. All your numbers in your formula should be in **exact** form. Show all your work.

V(t) =_____

b. [2 points] How many views did the video have at noon?

Answer: _____

c. [4 points] How long will it take for the video to have 10 thousand views? Round your answer to the nearest 0.01 hour. Show all your work.

Answer: _____

d. [2 points] What is the continuous growth rate per hour of V(t)? Round your answer to the nearest 0.01%.

Answer: _____