

Video Homework Guidelines

For this course, I ask you to submit some of your homework as “video homework”. Please note that you do **NOT** have to appear in the video.

The guidelines for completing video homework solutions are as follows:

1. Video must be accompanied by an audio recording of you speaking in English.
2. The video must be no more than 3 minutes.
3. Verbally state the course name, the assignment number, and your name at the beginning of the video.
4. State (and show) the problem. The statement should not be you reading the problem; you should state the main goals of the problem. If a diagram is part of the statement of the homework problem/question, then show the diagram.
5. State (or show) the quantity or quantities (i.e., “target variable(s)”) that you are trying to calculate.
6. State (or show) all of the needed assumptions, given quantities, or relevant equations. Set up the problem by choosing relevant equations and/or drawing an appropriate sketch.
7. Correctly solve the problem/question, **describing/showing all significant steps** and stating reasons for significant steps. Draw a box around any final symbolic formulas and/or numerical answers.
8. Briefly describe the problem and what you learned. Use information specific to the problem; this is NOT a description that could apply to any problem (e.g., “I learned how to manipulate equations and calculate a value.”)

NOTE that Jing screen capture freeware is available at <http://www.techsmith.com/jing.html> to make video homework solutions. You could, for example, make a few solution slides using Powerpoint (or Google Slides) and then use Jing to capture the slides and your audio as you talk your way through the solution. The final video file should be uploaded to the internet. You must send me a link by e-mail telling me where you put the videos (e.g., YouTube.com)

The rubric for grading video homework problems is given here. If any one of the characteristics belonging to a possible score is observed, the lower of the possible scores is earned. Please note that “stated”, “stating” means “verbally stated”, “verbally stating” in the following rubric.

Video Homework Rubric	
<input type="checkbox"/>	Homework is inaudible: zero credit
Score of Zero	
<input type="checkbox"/>	No attempt was made at stating and showing the problem.
<input type="checkbox"/>	No assumptions/givens/relevant equations were stated or shown.
<input type="checkbox"/>	No solution was attempted.
<input type="checkbox"/>	No brief description was stated.
Score of Four	
<input type="checkbox"/>	An attempt was made at stating and showing the problem.
<input type="checkbox"/>	Some assumptions/givens/relevant equations were stated or shown.
<input type="checkbox"/>	An audible solution was attempted.
<input type="checkbox"/>	A brief description was stated.
Score of Eight	
<input type="checkbox"/>	The problem was shown and stated audibly with some of the goals.
<input type="checkbox"/>	Most of the needed assumptions/givens/relevant equations were stated or shown.
<input type="checkbox"/>	A solution was attempted, showed an organized approach that was verbally communicated, and was mostly complete.
<input type="checkbox"/>	A brief description was stated that accurately described the problem and the method of solution.
Score of Ten	
<input type="checkbox"/>	The problem was shown and stated audibly with a description of the main goals (do not simply read the problem).
<input type="checkbox"/>	All of the needed assumptions/givens/relevant equations were stated or shown.
<input type="checkbox"/>	A solution was attempted, showed an organized approach that was communicated verbally and effectively, and was complete and correct.
<input type="checkbox"/>	A brief description was stated that accurately described the problem, the method of solution, and a physical or problem-solving insight.