

## Problem Wk.6.2: Nano Quiz

Due date: 3/10, 9:50am

Do all parts of this problem and then click Submit. There is only one Submit button, you should only do that when you are finished with all the parts of the problem.

**Do not try to start another log in, you will lose what you typed.**

**There is a limited checking budget for this problem (4 checks).**

**You have 15 minutes.** You must click submit before:

**3/10, 9:50am**

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**Part 1: Periodic Responses**

For each of the following systems, determine if the unit sample response is periodic. If the response is periodic, enter the period (an integer) in the box. If the response has alternating signs, this corresponds to a period of 2. If it is not periodic, enter none.

1.  $Y/X = \frac{1}{(1+R^2)}$

Period:

2.  $Y/X = \frac{R}{(1-R)}$

Period:

3.  $Y/X = \frac{1}{(1-\sqrt{2}R+R^2)}$

Period:

4.  $Y/X = \frac{R}{(1+R)}$

Period:



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**Part 2: Enable Submit**

Current time is: 4/11/2011, 12:19pm

Click Submit before: 3/10, 9:50am

**Enter Done below**

**and click Submit.**

**If this problem is submitted past the due time, this subproblem will be marked incorrect.**

This is a multi-part problem, each part has its own Save and Check buttons but there is **ONLY ONE** Submit button for the **WHOLE** problem. Finish working on all the parts before you click on **Submit**.

When you are finished with the problem...



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6.01SC Introduction to Electrical Engineering and Computer Science  
Spring 2011

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