

Rules of engagement:

- This quiz is designed to be completed by the average student in 20 minutes.
- This quiz will be open book:
 - You **may** use all materials at your disposal including the internet, Zybooks, textbooks, lecture notes and videos, example problems and your calculator.
 - You **may not** consult anyone other than yourself about anything related to this test until 6pm on Friday, June 5.
- I will email the quiz to you at about 2:15pm on Friday, June 5 after a short class time presentation. I will send it in both pdf and Word formats.
- You are allowed to work on this until 6pm on June 5, providing you do it in **one sitting**. You must monitor yourself and stay within this time frame. Once you open the test, you must submit the finished product to the D2L drop box **final quiz** by 6pm on June 5, 2020.
- The drop box will close at 6pm on Friday, June 5 and late submissions will not be accepted.
- You may email me your quiz directly if D2L is not available.
- The front page of the exam will ask you to sign your name. When you do, I will take this to indicate that you abided by these rules. You must sign your name to get a non-zero grade on the exam.
- Students with documented disabilities – you are responsible for providing your allowed accommodations, including appropriate time extensions. Contact me if I can be of help.
- **I will be generally available, by email only, during the hours you may take the exam.**

Zybooks Chapter8 – AC Power

- a. Instantaneous power
- b. Average power
- c. Effective value
- d. Root Mean Squared (RMS) value
- e. Power triangle
 - i. Power factor
 - ii. Power factor angle
 - iii. Real (average) power (W)
 - iv. Reactive power (VARs)
 - v. Apparent power (VA)
 - vi. Complex power
- f. Power factor correction

Laboratory

1. Lab #8 – Power factor correction