

**EENG307: Intro to Feedback Control**  
Fall 2020  
**Homework Assignment #1**  
**Quiz #1**

Quiz Question Friday: Evaluate each of the following to a complex number in polar form

(a)  $(1 + j)(-1 + 2j)$

(b)  $\frac{-1-j}{1-2j}$

Which is the correct reduced form for the complex ratio given in part (b)?

(a)  $\sqrt{\frac{2}{5}}e^{-j1.25}$

(b)  $\sqrt{\frac{5}{2}}e^{j1.25}$

(c)  $\frac{2}{5}e^{j1.25}$

(d)  $\frac{1}{2}$

(e)  $\sqrt{\frac{5}{2}}e^{-j0.75}$