

ERRATA for
PE Electrical and Computer: Electronics, Controls, and Communications Practice Exam
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Revisions are shown in red.

Question 73

A transfer function $G(s)$ is transformed into a sampled-data transfer function $G(z)$. The z -domain pole and zero locations, **along with the unit circle**, are shown in the diagrams.

Question 76

The input to an FM modulator with a gain of 400 Hz/V (**800π rad/sec/V**) is a sinusoid with an amplitude of 5 V and a frequency of 10 kHz. The modulation index for this system is most nearly:

Solution 76

Since:

$$D_f = 800\pi \text{ rad/sec/V}$$

$$A_m = 5 \text{ V}$$

$$f_m = 10 \text{ kHz}$$

And:

$$\beta_f = \frac{D_f A_m}{2\pi f_m} = \frac{800\pi \times 5}{2\pi \times 10 \times 10^3} = 0.2$$