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Time: 5:41 AM

Instructor: Tech Support, Jonathan Byrd, Jennifer Byrom, Nancy Hixson, Kristy Hawkins, Christina Horton, Rakia Law, Joey Fields

Course: MAT1301-14A-1A16-S2

Book: Pirnot: Mathematics All Around, 5e

Assignment: Unit V Homework

30. A computer interface for a digital studio piano has six microswitches that can be set in either the "on" or "off" position. These switches must be set properly for the interface to work. Answer questions (a) and (b).

a. In how many different ways can this group of switches be set?

☐ different ways

b. If it takes 2 minutes to set the switches and test to see if the interface is working properly, what is the longest possible time that it would take to find the proper settings by trial and error? Choose the correct answer below.

- ☐ A. over 3 hours
☐ B. over 2 hours
☐ C. over 128 hours
☐ D. over 6 hours