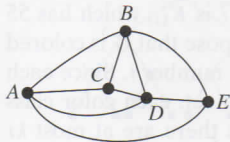
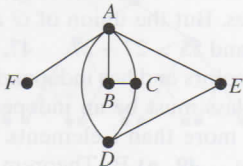


1. Four colors



3. Three colors



5. 3 **7.** 3 **9.** 2 **11.** 3 **13.** Graphs with no edges

15. 3 if n is even, 4 if n is odd **17.** Period 1: Math 115, Math 185; period 2: Math 116, CS 473; period 3: Math 195, CS 101; period 4: CS 102; period 5: CS 273 **19.** 5