Group 7 problem 1.32

A) CORRECT

2 is NOT a primitive root modulo 7

2 is a primitive root modulo 13

2 is a primitive root modulo 19

2 is NOT a primitive root modulo 23

B) CORRECT

3 is a primitive root modulo 5

3 is a primitive root modulo 7

3 is NOT a primitive root modulo 11

3 is a primitive root modulo 17

C) CORRECT

23 has 10 primitive roots, 10 were provided

29 has 12 primitive roots, 12 were provided

41 has 16 primitive roots, 16 were provided

43 has 12 primitive roots, 12 were provided

D) CORRECT

11 has 4 primitive roots, 4 were provided

E) CORRECT

229 has 72 primitive roots, 72 were provided

F) CORRECT

All primes listed have 2 as a primitive root

G) CORRECT

All primes listed have 3 as a primitive root

There are no primes less than 100 with 4 as a primitive root, none were provided