3.14

a)

Let a = 10

Since none of these congruencies equals 1 or -1 10 is a Miller-Rabin witness for 1105 and 1105 is composite by the MRT.

b)

Let a = 69

Since , by the MRT 69 is a witness for 294409 and 294409 is composite.

c) The book had b and c as the same n.

d)

Let a = 2

Let a = 3

Let a = 5

Let a = 7

Let a = 11

Let a = 13

Let a = 17

Let a = 19

Let a = 23

Let a = 29

Thus, by the MRT is probably prime.

e)

Let a = 82

Since , by the MRT 82 is a witness for and is composite.

f)

Let a = 2

Let a = 3

Let a = 5

Let a = 7

Let a = 11

Let a = 13

Let a = 17

Let a = 19

Let a = 23

Let a = 29

Thus, by the MRT is probably prime.

g)

Let a = 2

Since none of these congruencies equals 1 or -1 2 is a Miller-Rabin witness for and is composite by the MRT.