

5.2 2, 5, 6, 9, 10, 24, 25, 26, 49, 50

2. a)  $81/10 = 8 \text{ r } 1$

b)  $316/10 = 31 \text{ r } 6$

c)  $1057/10 = 105 \text{ r } 7$

26. a) 47

b) 34

c) 44

5. a) 2

b) -3

c) 14

d) -18

e) 21

b. a) 3

b) -2

c) 14

d) -16

e) 22

49.

a)  $0(1)+1(2)+3(3)+0(4)+8(5)+3(6)+1(7)+4(8)+3(9)$

$135 \bmod 11 = 3$

b) i)  $0-471-80075 = 174 \bmod 11 = 9$

ii)  $0-80604826 = 186 \bmod 11 = 10$

iii)  $88-8117-275 = 214 \bmod 11 = 5$

iv)  $5-05-001801 = 9 \bmod 11 = 3$

9.  $f(n) = 3n^2 - 1$

a)  $3(3)^2 - 1 = 26$

b)  $3(17)^2 - 1 = 866$

c)  $3(5)^2 - 1 = 74$

d)  $3(12)^2 - 1 = 431$

50 a) 1-183-47381-7

b) 1-183-37381-7

10.  $g(n) = 5 - 2n$

a)  $5 - 2(4) = -3$

b)  $5 - 2(14) = -23$

c)  $5 - 2(129) = -253$

d)  $5 - 2(23) = -41$

24. a) 59

b) 128

25. a) 31

b) 0

c) 36