HW 24

p161 # 3-5, 8-11

3. ~~th4.2, -28.4, -42.6, -56.8, -71, -85.2~~
-14.2, -16.5, -6.8, -3.1, 0.6, 4.3

4. a) SN: 3, add 6
3, 9, 15, 21, 27, 33, 39, 45, 51, 57
b) SN: 1.7, subtract 0.5
1.7, 1.2, 0.7, 0.2, -0.3, -0.8, -1.3, -1.8, -2.3, -2.8
c) SN: -3, multiply by -2
-3, 6, -12, 24, -48, 96, -192, 384, -768, 1536
d) SN: 384, divide by 2
384, 192, 96, 48, 24, 12, 6, 3, 3/2, 3/4

5. a) $\frac{1050}{85} = 12.35$ SN: 0, add 12.35
average floor distance is 12.35 ft
b) 16 floors, SN: 1050, add 10.88
average floor distance is 10.88 ft
c) 43rd floors up so 44th floor.
d) 1093.52 ft & 94th floor

8. a) 4m
b) SN: 101, subtract 4
19th term. 29m
c) 26 terms
d) -5 is term. 19m below ground level

9. a) multiply by -2 add 12
b) 1: 2, -4, 8, -16, 32, -64, 128
2: -16, -4, 8, 20, 32, 44, 56
c) The 6th term

10. a) $17 \cdot 7 = 119$
b) $15 \cdot 7 = 105$ 14 terms
$28 \cdot 7 = 196$
c) No, they are is between 300 & 400
d) add 7 or multiply the term # by 7.

see p 158 for answer to example A.