

# Breck / Huson / Algebra 2

## Lesson # 1.1 Homework

Solutions

1. 0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144,

2. 1. multiply by  $\frac{1}{2}$   
2.  $\frac{1}{2}, \frac{1}{4}, \frac{1}{8}, \frac{1}{16}, \frac{1}{32}, \frac{1}{64}$

3. ..., -7, 17, -31, 65

2. 2, -1, +5, -7

4. 1. arithmetic  $d=5$

0, 5, 10, 15, 20, 25...

2. Double then add five

0, 5, 15, 35, 75

# Breck / Huson / Algebra 2

Solutions

## Lesson 1.2

1. 2, 4, 8, 16, 32

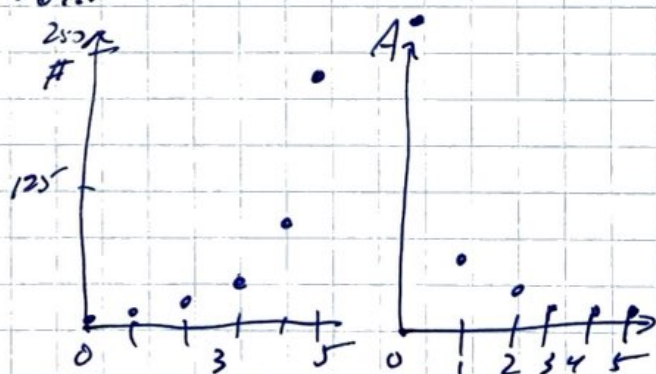
2. 1.  $r=1$
2.  $r=1/2$
3.  $r=3$
4.  $r=0.1$
5.  $r=10$

3.

n	total
1	1000
2	1020
3	1040.40
4	1061.208
5	1082.43216
6	1104.08....
7	1126.1624...
8	1148.6856...

4.

step	# $\Delta s$	Area
0	1	256
1	3	64
2	9	16
3	27	4
4	81	1
5	243	1/4



3. Both are ~~are~~ curved exponents, but # is increasing, A is decreasing

5. 1. 10, 26, ~~74~~, 218, 650

2. 1, -1, -7, -25, -79

3. 0, -4, -16, -52, -160

6. 1. arithmetic 1, -1, -3, -5, -7

2. geometric 1, -1, 1, -1, 1



# BREA/Hudson / Algebra 2

## Lesson #1.3 Homework

## Solutions

1. 1. -2, 4, 10, 16, 22
2. 11, 111, 211, 311, 411
3. 5, 7.5, 10, 12.5, 15
4. 5, -4, -13, -22, -31

2. 1. geometric  $r = \frac{1}{5}$

2. neither

3. arithmetic  $d = 10$

4. geometric  $r = \frac{1}{5}$

5. arithmetic

3. 1. -3, -2, -1, 0, +1  $d = 1$

2. 1, 13, 25, 37, 49  $d = 12$

3. 1, 0.25, -0.50, -1.25, -2  $d = -0.75$

4. 92, 89, 86, 83, 80  $d = -3$

4. 1. 1, 10, 19, 28

2. 1, 10, 100, 1000

3. 1, 10, 21, 45

5. 1. 1, 5, 25, 125, 625  $r = 5$

2. -1, +6, -36, 216, -1296  $r = -6$

4. 4, -12, 36, -108, +324  $r = -3$

3. 10, 5, ~~2.5~~, ~~1.25~~, ~~0.625~~  $r = \frac{1}{2}$   
2.5, 1.25, 0.625

5. 8, 12, 18, 27, 40.5  $r = \frac{3}{2}$

## Lesson 1.3 (cont)

6. 1)  $r=2$   
4, 8, 16, 32, 64

2)  $r=\frac{1}{2}$   
4, 2, 1,  $\frac{1}{2}$ ,  $\frac{1}{4}$

7. 1. 0, -6, -18, -63, -132

2. 3, 0, -6, -18, -63

3. yes if it is sufficiently large

~~100~~ 10, 14, 22, 38, 70