Geometric Sequences: Finding explicit and recursive rules starting with n = 0 and n = 1

Identify the common ratio. Write a recursive function and an explicit function for each sequence.

1.

n	1	2	3	4	5
y	5	15	45	135	405

Common Ratio:_____

Recursive Function:_____ Explicit Function_____

2.

n	0	1	2	3	4
y	20	10	5	2.5	1.25

Common Ratio:_____

Recursive Function:_____ Explicit Function_____

3.

n	1	2	3	4	5
y	50	100	200	400	800

Common Ratio:_____

Recursive Function:_____ Explicit Function_____

4.

n	0	1	2	3	4
y	900	300	100	33.33333	11.111111

Common Ratio:_____

Recursive Function:_____ Explicit Function_____