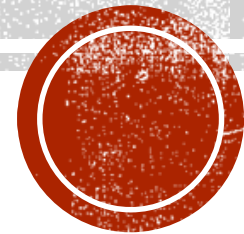


RECURSIVE AND EXPLICIT FUNCTIONS



ARITHMETIC SEQUENCES

- Add or subtract a constant, “d” also known as the constant difference.

- Recursive: $f(1) = \underline{\hspace{2cm}}$
 $f(x) = f(x - 1) + d$

Remember $f(x-1)$ means previous term

- Explicit:

$$f(x) = dx + \text{“0 term”}$$



GEOMETRIC SEQUENCES

- Multiply or divide by a ratio, “r”
- Recursive: $f(1) = \underline{\hspace{2cm}}$

$$f(x) = f(x - 1) * r$$

Remember

$f(x - 1)$ means
previous term

- Explicit:
 $f(x) = \text{“0 term”} * r^x$

