

## Warmup

① Create the explicit Arithmetic formula

$17, 10, 3, -4, \dots$   
 $d = -7$

R:  $a_n = a_{n-1} - 7$   
 $a_1 = 10$   
Ex:  $a_n = 17 - 7n$

## Geo

Create the explicit AND Recursive formula

②  $\frac{1}{2}, 1, 2, 4, 8, \dots$

mult  $-2 \rightarrow 2 \rightarrow -2 = r$   
 $a_1 = \frac{1}{2}$

R:  $a_1 = \frac{1}{2}$   
 $a_n = -2(a_{n-1})$

E:  $a_n = \frac{1}{2}(-2)^{n-1}$

③  $a_1 = \frac{1}{10}$   $r = 4$

R:  $a_1 = \frac{1}{10}$   
 $a_n = 4(a_{n-1})$

E:  $a_n = \frac{1}{10}(4)^{n-1}$



