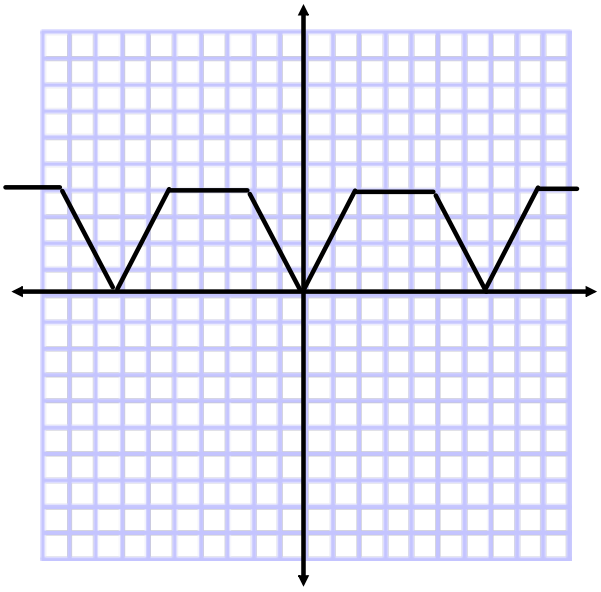
Periodic Functions

Look for a repeating pattern



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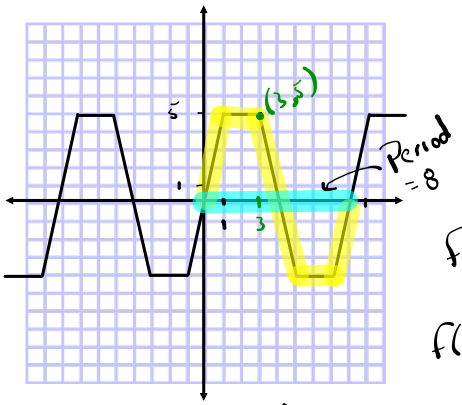
You need to know how to:

- "read" the function and predict values

- find the period (ie the width of ONE repeating pattern.)

Ex. What is the period of the function f(x) below?



Find: f(1) = 5

$f(9) = f(9-8) = f(1)$
$= 5$

$f(25)$
$= f(25-8-8-8) = f(1) = 5$

$f(200) = f(200-8(25))$
$= f(0) = 0$

$f(67) = f(67-8(8))$
$f(67-64) = f(3)$
$= 5$

$f(-21) = f(-21+8)$
$= f(-13+8)$
$= f(-5+8) = f(3) = 5$

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