

Lesson 5-8 → Negative Time

We can use Negative Exponents to look back in time

The following data is taken of the fish population in a pond

year, x	0	1	2	3
$f(x)$	100	125	156	195

$\times 1.25$ $\times 1.25$ $\times 1.25$

$$\frac{125}{100} = 1.25 \quad \frac{156}{125} \approx 1.25 \quad \frac{195}{156} \approx 1.25$$

$$f(x) = 100(1.25)^x$$

The fish population is increasing by 25% every year

how many fish 3 years before start

$$100(1.25)^{-3} \approx 51$$