

Parent Function



domain: $(-\infty, \infty)$
 range: $y > 0$
 y-intercept: $(0, 1)$
 zeros: none
 asymptote: $y = 0$
 increasing: $(-\infty, \infty)$

Evaluating Exponential Functions

EXAMPLE: If $f(x) = 20\left(\frac{1}{5}\right)^x$ find $f(2)$.

→ SOLUTION: $f(2) = 20\left(\frac{1}{5}\right)^2 = 20\left(\frac{1}{25}\right) = 5$

So, $f(2) = 5$

...which means $f(x)$ passes through the point $(2, 5)$.

Linear versus Exponential

Linear

Look for addition or subtraction of y-values

x	0	1	2	3	4
y	8	5	2	-1	-4

- Has a constant rate of change:

$$\text{Slope} = \frac{y \text{ change}}{x \text{ change}} = \frac{-3}{1} = -3$$

Has a y-intercept at $(0, 8)$

- Equation: $y = mx + b$
 m = slope and b = y-intercept
 $y = -3x + 8$

Exponential

Look for multiplication or division of y-values

x	0	1	2	3	4
y	2	6	18	54	162

Does **NOT** have a constant rate of change

- Has a growth factor of 3
- Has y-intercept at $(0, 2)$
- Equation: $y = a(b)^x$
 a = initial value and b = growth factor
 $y = 2(3)^x$

Average Rate of Change

- NEED 2 POINTS
- The **SLOPE** of a line that passes through two points of a function
- $\frac{y \text{ change}}{x \text{ change}}$

EXAMPLE: Given the function $f(x) = 3(2)^x$, find the average rate of change over the interval $2 \leq x \leq 4$.

→ SOLUTION:

x	f(x)
2	12
4	48

$f(2) = 3(2)^2 = 12$
 $f(4) = 3(2)^4 = 48$
 a.r.o.c. = $\frac{36}{2} = 18$

Laws of Exponents

- Multiplying with the same base: **ADD** powers
 $x^a \cdot x^b = x^{a+b}$ EXAMPLE: $5^2 \cdot 5^7 = 5^{10}$
- Dividing with the same base: **SUBTRACT** powers
 $\frac{x^a}{x^b} = x^{a-b}$ EXAMPLE: $\frac{5^6}{5^2} = 5^4$
- Power to power: **MULTIPLY** powers
 $(x^a)^b = x^{a \cdot b}$ EXAMPLE: $(2^3)^2 = 2^6$
- Anything to the **FIRST** power is **ITSELF**
 $x^1 = x$ EXAMPLE: $20^1 = 20$
- Anything to the **ZERO** power is **ONE**
 $x^0 = 1$ EXAMPLE: $20^0 = 1$
- Negative exponents: re-write as $\frac{1}{b^a}$ the exponent to the positive power (it is not a negative number!!!)
 $b^{-a} = \frac{1}{b^a}$ EXAMPLE: $2^{-4} = \frac{1}{2^4} = \frac{1}{16}$

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