Math 248: Lab 2

September 1, 2025

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Compute the arithmetic mean and geometric mean of each set of numbers.

[10, 5, 2, 5]

Arithmetic Mean

$$\frac{10+5+2+5}{4} = \frac{22}{4} = 5.5\tag{1}$$

Geometric Mean

$$(10*5*2*5)^{\frac{1}{4}} = 500^{0.25} = 4.73 \tag{2}$$

 $[4,\!4,\!4,\!4,\!4]$

Arithmetic Mean

$$\frac{4+4+4+4+4}{5} = 4\tag{3}$$

Geometric Mean

$$(4^5)^{\frac{1}{5}} = 4 \tag{4}$$

[0,1,2,3,4,5]

Arithmetic Mean

$$\frac{0+1+2+3+4+5}{6} = \frac{15}{6} = 2.5 \tag{5}$$

Geometric Mean

$$(0)^{\frac{1}{6}} = 0 \tag{6}$$