

Journal of Humanistic Mathematics

Volume 4 | Issue 1

January 2014

Ars Mathematica

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Recommended Citation

Raatz, S. "Ars Mathematica," *Journal of Humanistic Mathematics*, Volume 4 Issue 1 (January 2014), pages 171-171. DOI: 10.5642/jhummath.201401.12 . Available at: <https://scholarship.claremont.edu/jhm/vol4/iss1/12>

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Ars Mathematica

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A poem should not mean / but be.
Ars Poetica, Archibald MacLeish

A theorem should be clear and elemental
as a diamond or crystal,

smart,
as a necklace at the arts,

formal, as a tiara
worn by the Queen of Sciences at an opera,

terse, as when a topologist says,
trivial.

A theorem should be logical as a syllogism,
as colored light from a prism,

assembled lemma by lemma into a mathematical artifice,
timeless as concrete and bricks,

leaving open conjectures and questions,
mysteries like the Riemann Hypothesis.

A theorem should be equal to:
in mathematics, true.

For all the history of proof theory,
from Pythagoras's harmony to Cantor's infinity,

a theorem should not be, but say
Q.E.D.