

NUMS '15 Presentation
Foundational Notation

* \equiv some coordinate pair

$Sq(*) \equiv$ the square

$Sq'(*) \equiv$ the square rotated
by $\frac{\pi}{4}$

$Ci(*) \equiv$ the circle

$As(*) \equiv$ the aster

$(x, y) \equiv$ Cartesian plane

$(r, \theta) \equiv$ polar plane

$\mathbb{R}^n \equiv$ reals of n^{th} dimension
(\mathbb{R}^1 being the real line)

$\mathbb{Q} \equiv$ rationals

$\mathbb{R} \setminus \mathbb{Q} \equiv$ irrationals

$Ro(\otimes) \equiv$ rotation about/of...

$Re(\otimes) \equiv$ reflection over/of...

$T_r(\mathcal{X}) \equiv$ translation to/of...

$\mathcal{X} \cup \mathcal{Y} \equiv$ union of...

$\mathcal{X} \cap \mathcal{Y} \equiv$ intersection of

$\psi \equiv$ angle wrt origin
of cartesian
plane

$\theta \equiv$ angle wrt origin
of polar plane

$\sigma, \sigma', \sigma'', \dots \equiv$ angles wrt
derived artificial
origins

$g_L(\mathcal{X} \cup \mathcal{Y}), g_L(\mathcal{X} \cap \mathcal{Y}) \equiv$ geometric
lens obtained
from

$[,] \equiv$ closed interval

$(,) \equiv$ open interval

$G(\) \equiv$ graph embedded
onto/into...

union &/or
intersection
of...