

MATE 5150: Exam 01 Review

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1 Polinomial Lagrange Interpolation

2 $T : 1 - 1$ and onto

3 Determine Basis and Span

4 Find $[T]_{\beta}^{\gamma}$

5 Answer of Given Questions

In R^2 , let L be the line $y = mx$, where $m \neq 0$. Find an expression for $T(x, y)$, where

1. T is the reflection of R^2 about L .
2. T is the projection on L along the line perpendicular to L . (See the definition of projection in the exercises of Section 2.1.)