

Note: The ith column of the matrix says where the ith B-basis vector goes, in B-coordinates.

$$\frac{M_{TB}}{R} = P_{B} M_{T} P_{B},$$

$$\frac{P_{B} M_{TB}}{R} = P_{B} P_{B}^{-1} M_{T} P_{B}$$

$$= I M_{T} P_{B}$$

$$= M_{T} P_{B}$$

$$= M_{T} P_{B}$$

$$\frac{P_{B} M_{TB}}{R} P_{B}^{-1} = M_{T} P_{B}^{-1} P_{B}^{-1}$$

$$= M_{T}$$

$$\frac{(conlosin: P_{B} M_{TB} P_{B}^{-1} = M_{T}
}{(conlosin: P_{B} M_{T} R_{B} = M_{T}
}$$

$$\frac{(conlosin: P_{B} M_{T} R_{B} = M_{T}
}{R_{B} M_{T} R_{B}} = M_{T}$$

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$$\frac{(conlosin: P_{B} M_{T} R_{B}}{R_{B}} = M_{T}$$

$$\frac{(conlosin: P_{B} M_{T}$$