



2nd diff vector = dl

osculating plane

has normal $\# \times dl$

$$lm = \begin{pmatrix} 0 \\ 1 \\ 0 \end{pmatrix}$$

$k =$
 $r =$

$$lb = \begin{pmatrix} 1 \\ 0 \\ 0 \end{pmatrix} \times \begin{pmatrix} 1 & 2 & -1 \\ -1 & -2 & -1 \\ -1 & -2 & -1 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \\ 1 \end{pmatrix}$$

$$\sum (e_i) b_i(t) = \begin{pmatrix} 1 \\ 0 \\ 0 \end{pmatrix} \Rightarrow t$$