

!" #

\$ %& ' ( ) \* +

, ! \$ % \* + - ! \$ . ( " / - ( ) 0 ( / - ) + / - ! \$ ( ! 2 / 3 - ' ! 4 ! /  
- 5 5 6 ! \* !

1)7 1 ! \$ %  
88

1)7 1 ) \$ . \* %  
88

' ò ß # A # A # A # A ò ß A # A q

- 0 1' :("9 2 \$!1\* ,%

$$\begin{matrix}
 & & & 1111 \\
 & & A & 2011 \\
 & & & 1101 \\
 ! & A+ & *!$ *B+ )" & 1(: 71' + ( 7) < (9 (:1' " !*+4+1 $ 9' (+ !)2$ 1 7 $!1* , \\
 & +1' & $!1* , & - \\
 . & A+ & !)+ C(*7! " $ !1( 1(+("0 1' ' ($2 ()+" !*+4+1 $ 9' (+ ( :: 1 \\
 & $!1* , & +1' $!1* , & - \\
 & 0!)!1 & \det A^T A .
 \end{matrix}$$

-! : +! \$!1\* , +) ' 1' !1. (1' ! 7 A 1' !0 1 2 \* 1\* +/+ (9 1' !1 \det A \det A 1 .

. -@+ 7 \* 1' :("9 2 +4+1 \$%

$$\begin{matrix}
 5 & k & x & 2y & z & 1 \\
 2x & 2 & k & y & 2z & 2 \\
 x & 2y & 5 & k & z & 1
 \end{matrix}$$

( \* 9' !10!" ) + (: </ : ! 4/1' +4+1 \$ ' !+% ( +(")1 ( / ! ) D) +(")1 ( / : 1 "4  
 \$! 4+(")1 ( +

&- 7 ! "" \$!1\* + +) ' 1' !1%

$$\begin{matrix}
 936 \\
 ! A^T A & 354 & ! 7 \\
 646
 \end{matrix}$$

- ! 76!\*!\$ 1 \* 6+) ' 1' !11' 6( 1+ A 1, 1,0 ,B 2,0,1 ,C 1,p,3 D 2,2p,5 lie  
1' +!\$ 6" -

. 72 \*!"! 76!\*!\$ 1\* D)!1 ( + (: 1' 6" ( 1! 21' 6( 1+ &/ / / / /  
perpendicular theXY 6" -

0 1' 6( 1+ / / ! 7 &/ / - 71' 6( 1 ( 1' !, ++) ' 1' !11' !\* ! (:  
the triangle ABC + -

>-

$$-! \frac{1}{2} \cdot \frac{1}{2}t, \frac{1}{2}t, 0, t \quad t(\&$$

$$-! \quad \%A+ 1' \quad :! 11' !11' \quad 7 1 *\$ \quad ! 1 (: ! \$!1*, 9 1' \quad 1 2 * \quad 1* + +! \quad 1 2 *-$$

$$\cdot \quad i k \quad 0 \quad ii k)0 \quad k)6 \quad iii k \quad 6.$$

$$\&- ! \quad \begin{array}{ccc} 312 \\ 021 \\ 001 \end{array} \cdot \quad \begin{array}{cc} 0 & 2 \\ 2 & 0 \end{array} \quad \begin{array}{cc} 0 & 2 \\ 2 & 0 \end{array} \quad \frac{1}{5} I_3$$

$$=- ! \quad \frac{\bar{6}}{2} \cdot \quad 1, 1, \quad 2 \quad \frac{*}{6}$$

$$-! \quad p \quad 2$$

$$\cdot \quad x \quad 3 \quad 3\%, y \quad \%, z \quad t! * \quad 1' \quad 6! *! \$ \quad 1* \quad D)! 1 ( \quad +! \quad 7 \quad x \quad 3 \quad y \quad 3 \quad 0 \quad +1' \quad 2 \quad *!" \quad D)! 1 ( \quad -$$

$$C \quad 0, \frac{11 + 1946}{5}, 0$$

