

5. (a) Equation (11) involves the determinant of the coefficient matrix of the system

$$\begin{bmatrix} x & y & z & 1 \\ x_1 & y_1 & z_1 & 1 \\ x_2 & y_2 & z_2 & 1 \\ x_3 & y_3 & z_3 & 1 \end{bmatrix} \begin{bmatrix} c_1 \\ c_2 \\ c_3 \\ c_4 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \\ 0 \end{bmatrix}.$$

Rows 2 through 4 show that the plane passes through the three points  $(x_i, y_i, z_i)$ ,

$i = 1, 2, 3$ , while row 1 gives the equation  $c_1x + c_2y + c_3z + c_4 = 0$ . For the plane passing through the origin parallel to the plane passing through the three points, the constant term in the final equation will be 0, which is accomplished by using

$$\begin{bmatrix} x & y & z & 0 \\ x_1 & y_1 & z_1 & 1 \\ x_2 & y_2 & z_2 & 1 \\ x_3 & y_3 & z_3 & 1 \end{bmatrix} = 0$$

- (b) The parallel planes passing through the origin are  $x + 2y + z = 0$  and  $-x + y - 2z = 0$ , respectively.

6. (a) Using Equation (12), the equation of the

$$\text{sphere is } \begin{vmatrix} x^2 + y^2 + z^2 & x & y & z & 1 \\ 14 & 1 & 2 & 3 & 1 \\ 6 & -1 & 2 & 1 & 1 \\ 2 & 1 & 0 & 1 & 1 \\ 6 & 1 & 2 & -1 & 1 \end{vmatrix} = 0.$$

Expanding by cofactors along the first row yields

$$16(x^2 + y^2 + z^2) - 32x - 64y - 32z + 32 = 0;$$

that is,  $(x^2 + y^2 + z^2) - 2x - 4y - 2z + 2 = 0$ .

Completing the squares in each variable yields the standard form

$$(x-1)^2 + (y-2)^2 + (z-1)^2 = 4.$$

Note: When evaluating the cofactors, it is useful to take advantage of the column of ones and elementary row operations; for example, the cofactor of  $x^2 + y^2 + z^2$  above can be evaluated as follows:

$$\begin{vmatrix} 1 & 2 & 3 & 1 \\ -1 & 2 & 1 & 1 \\ 1 & 0 & 1 & 1 \\ 1 & 2 & -1 & 1 \end{vmatrix} = \begin{vmatrix} 1 & 2 & 3 & 1 \\ -2 & 0 & -2 & 0 \\ 0 & -2 & -2 & 0 \\ 0 & 0 & -4 & 0 \end{vmatrix} = 16 \text{ by}$$

cofactor expansion of the latter determinant along the last column.

$$(b) \text{ As in (a), } \begin{vmatrix} x^2 + y^2 + z^2 & x & y & z & 1 \\ 5 & 0 & 1 & -2 & 1 \\ 11 & 1 & 3 & 1 & 1 \\ 5 & 2 & -1 & 0 & 1 \\ 11 & 3 & 1 & -1 & 1 \end{vmatrix} = 0$$

yields

$$-24(x^2 + y^2 + z^2) + 48x + 48y + 72 = 0; \text{ that}$$

is,  $x^2 + y^2 + z^2 - 2x - 2y - 3 = 0$  or in

standard form,  $(x-1)^2 + (y-1)^2 + z^2 = 5$ .

7. Substituting each of the points  $(x_1, y_1)$ ,  $(x_2, y_2)$ ,  $(x_3, y_3)$ ,  $(x_4, y_4)$ , and  $(x_5, y_5)$  into the equation  $c_1x^2 + c_2xy + c_3y^2 + c_4x + c_5y + c_6 = 0$  yields  $c_1x_i^2 + c_2x_iy_i + c_3y_i^2 + c_4x_i + c_5y_i + c_6 = 0$   $\vdots$   $c_1x_5^2 + c_2x_5y_5 + c_3y_5^2 + c_4x_5 + c_5y_5 + c_6 = 0$ . These together with the original equation form a homogeneous linear system with a non-trivial solution for  $c_1, c_2, \dots, c_6$ . Thus the determinant of the coefficient matrix is zero, which is exactly Equation (10).
8. As in the previous problem, substitute the coordinates  $(x_i, y_i, z_i)$  of each of the three points into the equation  $c_1x + c_2y + c_3z + c_4 = 0$  to obtain a homogeneous system with nontrivial solution for  $c_1, \dots, c_4$ . Thus the determinant of the coefficient matrix is zero, which is exactly Equation (11).
9. Substituting the coordinates  $(x_i, y_i, z_i)$  of the four points into the equation  $c_1(x^2 + y^2 + z^2) + c_2x + c_3y + c_4z + c_5 = 0$  of the sphere yields four equations, which together with the above sphere equation form a homogeneous linear system for  $c_1, \dots, c_5$  with a nontrivial solution. Thus the determinant of this system is zero, which is Equation (12).

# Elementary Linear Algebra 7e And Ssm Set

**Michael Hoelscher**



## **Elementary Linear Algebra 7e And Ssm Set:**

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web jun 12 2017 running cadence or leg turnover is defined as the total number of revolutions per minute rpm or number of full cycles taken within a minute by the pair of feet measured by the number of times that your feet strike the ground per minute while running ground contact time cadence is usually calculated by counting the number of

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web jun 7 2021 running cadence is the number of steps per minute a person takes during a run it s also known as stride frequency step frequency foot turnover the number of steps you take per minute

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web jan 18 2021 4 ways to improve running cadence 1 measure your running cadence before you can increase your running cadence you will need to measure your current running cadence and see what improvements need to be made as mentioned earlier the ideal running cadence is over 170 spm

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web mar 14 2023 forcing a high cadence is a questionable strategy for improving performance and as we ve seen cadence is largely determined by how fast we run having said that most of us naturally select a cadence lower than the optimum and

would benefit from retraining to a higher step rate

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web over the past few years studies have emerged that highlight the role of cadence to correct common running related injuries rris as little as a five percent increase in step rate while keeping running velocity constant has been shown to reduce shock absorption at the level of the knee by 20 percent additionally increasing cadence by 10

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web oct 17 2023 recreational runners tend to have a cadence between 150 to 180 strides per minute spm faster runners as we ve seen often have a higher cadence for example eliud kipchoge the marathon world record holder is known to achieve a cadence of 190 200spm in general 170 180spm is considered a great running cadence

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web apr 16 2021 your cadence is determined by your running skill history of training and anatomy taller runners for example will naturally have lower cadences every runner has a distinct cadence style one runner may take large strides and run efficiently while another may take more steps per minute and run efficiently