Step-1

In order to guess the pivots, we proceed as follows:

$$|2| = 2$$

$$\begin{vmatrix} 2 & 1 \\ 4 & 5 \end{vmatrix} = 6$$

$$\begin{vmatrix} 2 & 1 & 2 \\ 4 & 5 & 0 \\ 2 & 7 & 0 \end{vmatrix} = 36$$

Thus, the pivot entries must be $\boxed{2, 3, \text{ and } 6}$.

Step-2

Let us obtain the pivot entries by elimination:

Consider $\begin{bmatrix} 2 & 1 & 2 \\ 4 & 5 & 0 \\ 2 & 7 & 0 \end{bmatrix}$

Row 3 – Row 1 and Row 2 – 2Row 1 gives

$$\begin{bmatrix} 2 & 1 & 2 \\ 0 & 3 & -4 \\ 0 & 6 & -2 \end{bmatrix}$$

Row 3 – 2Row 2 gives

$$\begin{bmatrix} 2 & 1 & 2 \\ 0 & 3 & -4 \\ 0 & 0 & 6 \end{bmatrix}$$

Thus, we confirm that the pivot elements are $\boxed{2, 3, \text{ and } 6}$.

Step-3

Consider the following determinant:

$$B = \begin{vmatrix} 2 & 1 & 2 \\ 4 & 5 & 3 \\ 2 & 7 & 0 \end{vmatrix}$$

Step-4

In order to guess the pivots, we proceed as follows:

$$|2| = 2$$

$$\begin{vmatrix} 2 & 1 \\ 4 & 5 \end{vmatrix} = 6$$

$$\begin{vmatrix} 2 & 1 & 2 \\ 4 & 5 & 3 \\ 2 & 7 & 0 \end{vmatrix} = 0$$

Thus, the pivot entries must be $\boxed{2, 3, \text{ and } 0}$.

Step-5

Let us obtain the pivot entries by elimination:

Consider
$$\begin{bmatrix} 2 & 1 & 2 \\ 4 & 5 & 3 \\ 2 & 7 & 0 \end{bmatrix}$$

Row 3 â€" Row 1 and Row 2 â€" 2Row 1 gives

$$\begin{bmatrix} 2 & 1 & 2 \\ 0 & 3 & -1 \\ 0 & 6 & -2 \end{bmatrix}$$

Row 3 â€" 2Row 2 gives

$$\begin{bmatrix} 2 & 1 & 2 \\ 0 & 3 & -1 \\ 0 & 0 & 0 \end{bmatrix}$$

Thus, we confirm that the pivot elements are $\boxed{2, 3, \text{ and } 0}$.