

Question

At the half time show, a marching band marched in formation. The lead drummer started at a point with coordinates $(-2,-5)$ and moved 3 *steps* up and 1 *step* right.

Write a rule to describe the translation.

What were the coordinates of the drummer's final position?

Solution

The x value of the coordinate is left or right and the y value of the coordinate is up or down.

The rule is (initial x-position + x-displacement, initial y-position + y-displacement).

The current coordinates of the lead drummer are $(-2 + 1[\textit{step}]; -5+3[\textit{step}])$. Suppose that the length of 1 step equals 1.

Answer

The current coordinates are **$(-1;-2)$** .