

## Attendance Quiz 7

Name: \_\_\_\_\_ Time: \_\_\_\_\_

1. Let  $T : \mathbb{R}^2 \rightarrow \mathbb{R}^3$  be a linear transformation such that

$$T(x_1, x_2) = (x_1 - 2x_2, -x_1 + 3x_2, 3x_1 - 2x_2).$$

Find  $\vec{x}$  such that  $T(\vec{x}) = (-1, 3, 9)$ .