**Homework**: Transformations

**1.** Triangle *DEG* has the coordinates *D*(-2, 1), *E*(-3, 4), and *G*(3, 3). Triangle *DEG* is translated *T*+3, +1 . Complete the table mapping each coordinate pair onto its image, then plot and label both triangles on the grid.

*T*+3, +1

*D*(-2, 1) →

*E*(-3, 4) →

*G*(3, 3) →

**

Justify that the transformation preserves distance.

**2.**

**

2.

**

**

**1**

**