Transformations Unit

Lesson #1: Translations

Graph each figure and the image under the given translation on a coordinate plane. Name the new coordinates.

a. ΔLIP with vertices L(-3, -1), I(-1, 4), and P(2, 2) under the translation $(x,y) \rightarrow (x+2, y-4)$.

b. Quadrilateral DUCK with vertices D(2,2), U(4, 1), C(3, -2), and K(0,-1) under the translation $(x,y) \rightarrow (x-4, y+3)$

c. ΔRST with vertices R(-4, -1), S(-1, 3), and T(-1, 1)under the translation $(x,y) \rightarrow (x+4, y-2)$

d. Quadrilateral BAND with vertices B(-3, -3), A(2, -3), N(5, 1), and D(1, 1) under the translation $(x,y) \rightarrow (x-2, y+5)$.

e. Pentagon MOUSE with vertices M(-1, -2), O(2, -1), U(5, -2), S(4, -4), and E(1, -4) under the translation $(x,y) \rightarrow (x-1, y+7)$

f. Quadrilateral MATH with vertices M(4, 1), A(2, 4), T(0,6), and H(1,2) under the translation $(x,y) \rightarrow (x-2, y-3)$.