Translations

Translations: moves every point the same distance in the same direction

* add/subtract to x & y

Example: Translation T is defined as $(x, y) \rightarrow (x - 4, y + 3)$. Find the image of (7, -3) under translation T.

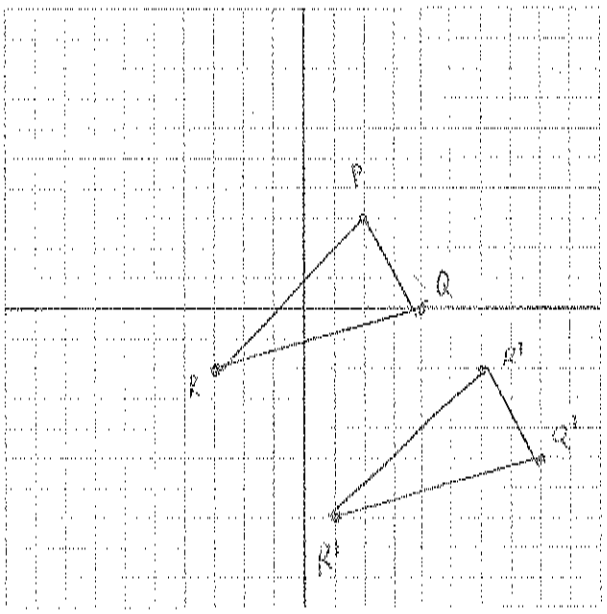
$(7, -3) \xrightarrow{T_{-4,3}} (3, 0)$

Example: If the coordinates of ΔPQR are P(2, 3), Q(4, 0) and R(-3, -2), graph the image of ΔPQR under $T_{4,-5}$

$P'(6, -2)$

$Q'(8, -5)$

$R'(1, -7)$



Try:

Given ΔABC with A(0, -9), B(3, 0), and C(6, -9). Graph and state the coordinates of ΔA'B'C', the image of ΔABC after the translation of $T_{5,4}$

$A'(5, -5)$

$B'(8, 4)$

$C'(11, -5)$