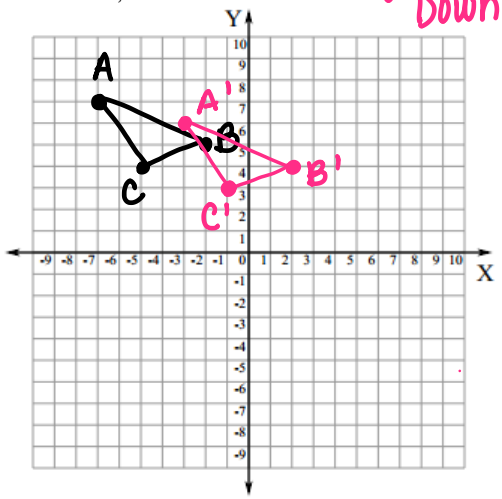
9.2 Translations Homework

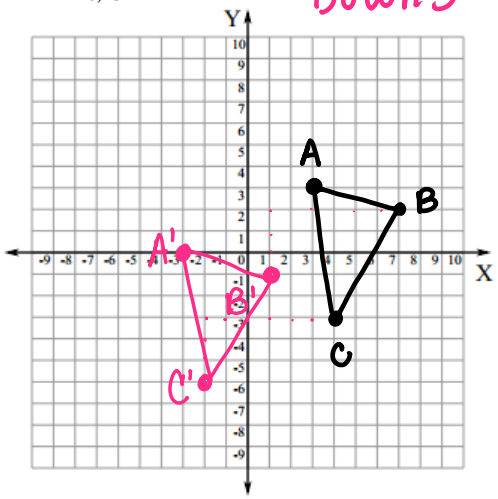
Name Key

1. Draw the translation of the graph of each function along the given vector.

a) $T_{\langle 4,-1\rangle}(\Delta ABC)$ Right 4 Down 1



b) $T_{\langle -6,-3\rangle}(\Delta ABC)$ Left 6 Down 3



2. Write the coordinate rule that matches the description.

a) right 5 and down 6 T (x,y) ------- > ($x+5$, $y-6$)

b) up 2 and left 8 T (x,y) ------- > ($x-6$, $y+2$)

3. Convert between vector component form and coordinate form.

a) $T_{\langle 4,-2\rangle}(A) =$ T (x,y) ------- > ($x+4$, $y-2$)

b) $T_{\langle -7,4\rangle}(A) =$ T (x,y) ------- > ($x-7$, $y+4$)

4. Determine the translation rule from the pre-image and image.

a) A (4, 9) A' (1, -3) T (x,y) ---------- > ($x-3$, $y-12$)

b) A (5, -3) A' (-2, 7) T (x,y) ---------- > ($x-7$, $y+10$)

5. Determine the vector that was used in this translation.

$\langle 5, -3 \rangle$