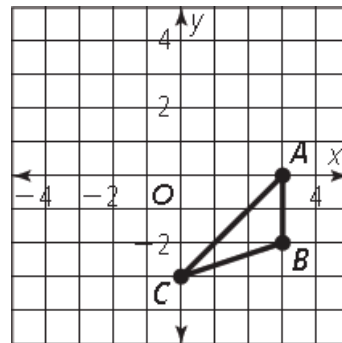


3-2 Quick Check - Translations

For Items 1 and 2, use $\triangle ABC$.



1. What are the vertices of $\triangle A'B'C'$ produced by $T_{(-3, 6)}(\triangle ABC) = \triangle A'B'C'$?

A $A'(0, 6), B'(0, 4), C'(-3, 3)$

B $A'(6, 6), B'(6, 4), C'(3, 3)$

C $A'(0, -6), B'(0, -8), C'(-3, 9)$

D $A'(6, -6), B'(6, -8), C'(3, 9)$
2. Suppose $\triangle DEF$ is the image of a translation of $\triangle ABC$. If D is at $(-6, -2)$, what translation rule maps $\triangle ABC$ to $\triangle DEF$?

A $T_{(9, 2)}(\triangle ABC) = \triangle DEF$

B $T_{(9, -2)}(\triangle ABC) = \triangle DEF$

C $T_{(-9, 2)}(\triangle ABC) = \triangle DEF$

D $T_{(-9, -2)}(\triangle ABC) = \triangle DEF$
3. Suppose the equation of line p is $x = 2$ and the equation of line q is $x = -1$. What translation is equivalent to $(R_p \circ R_q)(\triangle ABC)$?
4. What is the composition of the translations $(T_{(-3, 4)} \circ T_{(8, -7)})(x, y)$ as one translation?
5. How far apart are parallel lines m and n such that $T_{(0, -12)}(\triangle XYZ) = (R_n \circ R_m)(\triangle XYZ)$?