



CHECK YOUR KNOWLEDGE

1. Graph a polygon with the following points: $A(-4, 2)$, $B(-2, 2)$, $C(-2, -1)$, and $D(-4, -1)$. Then translate it as follows: $(x+6, y-3)$.
2. Graph a polygon with the following points: $E(3, 5)$, $F(4, 1)$, and $G(2, 4)$. Then translate it as follows: $(x-3, y-4)$.
3. Graph a polygon with the following points: $P(-2, 4)$, $Q(-3, 1)$, and $R(-4, 3)$. Then reflect the shape over the x -axis.
4. Graph a polygon with the following points: $S(1, 2)$, $T(4, 4)$, $U(4, -2)$, and $V(2, -2)$. Then reflect the shape over the y -axis.
5. Graph a triangle with the following points: $A(-2, -6)$, $B(2, 8)$, and $C(2, -4)$. Then dilate it by a scale factor of $\frac{1}{2}$.
6. Graph the quadrilateral with the following points: $A(-2, -6)$, $B(-2, -3)$, $C(4, 3)$, and $D(4, -6)$. Then rotate it 180° clockwise around the origin (the center of rotation).