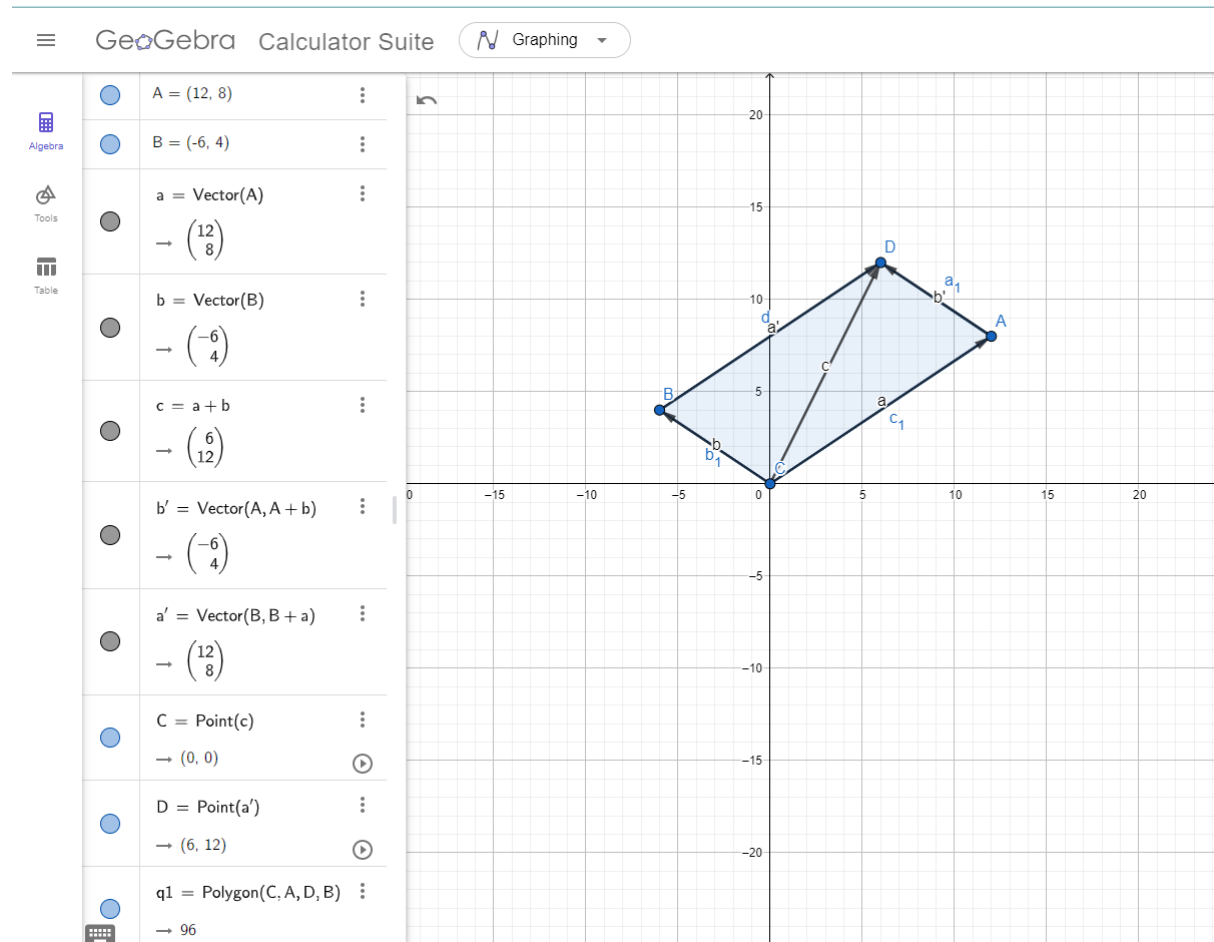


P18-0145

Meer Murtaza

Geogebra tool:





Algebra



Tools



Table



$$a' = \text{Vector}(B, B + a)$$



$$\rightarrow \begin{pmatrix} 12 \\ 8 \end{pmatrix}$$



$$C = \text{Point}(c)$$



$$\rightarrow (0, 0)$$



$$D = \text{Point}(a')$$



$$\rightarrow (6, 12)$$



$$q1 = \text{Polygon}(C, A, D, B)$$



$$\rightarrow 96$$



$$a_1 = \text{Segment}(A, D, q1)$$



$$\rightarrow 7.211102550928$$



$$b_1 = \text{Segment}(B, C, q1)$$



$$\rightarrow 7.211102550928$$



$$c_1 = \text{Segment}(C, A, q1)$$



$$\rightarrow 14.422205101856$$



$$d = \text{Segment}(D, B, q1)$$



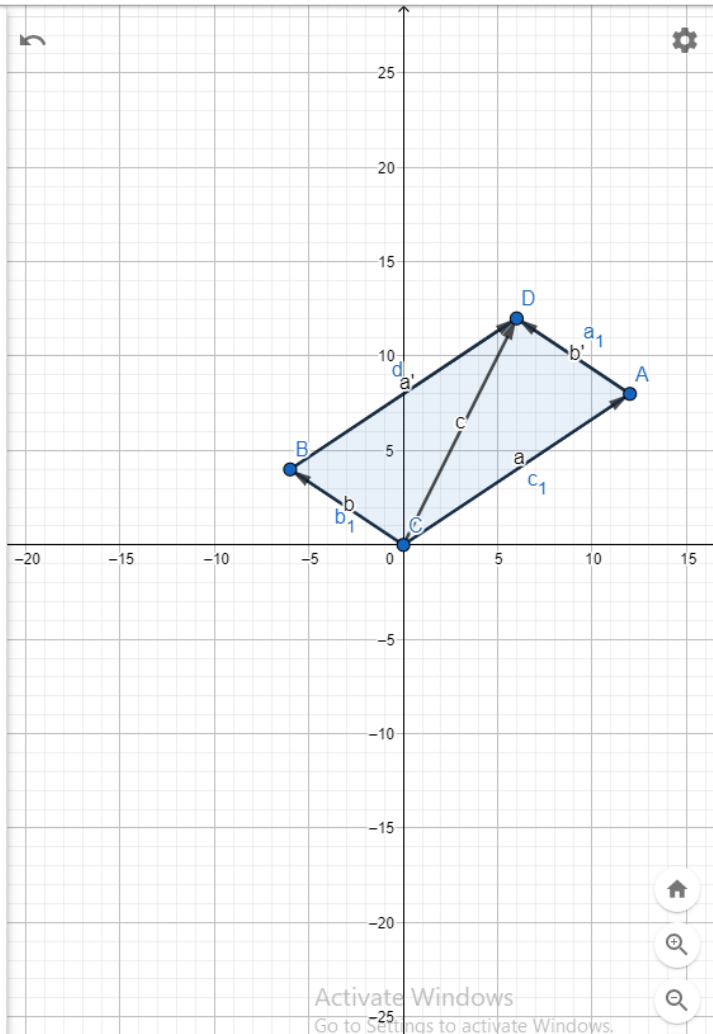
$$\rightarrow 14.422205101856$$



Input...



GeoGebra Calculator Suite

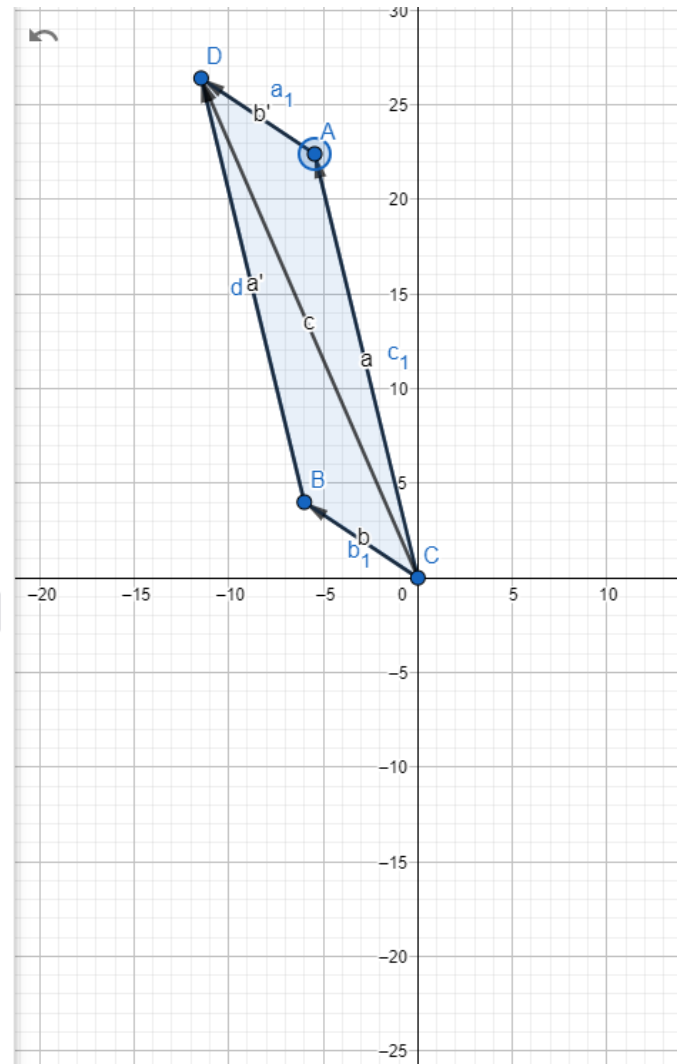


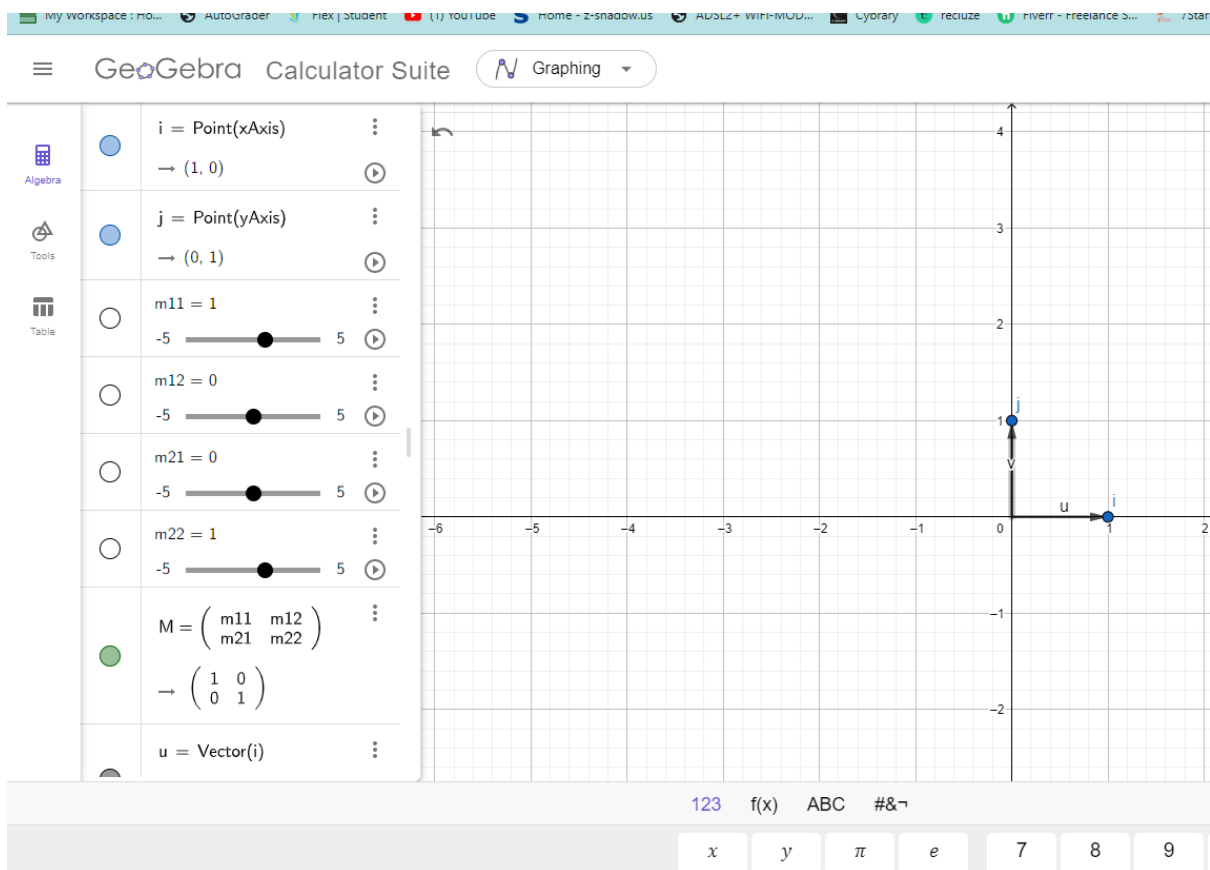
Algebra

Tools

Table

	$a' = \text{Vector}(B, B + a)$	
	$\rightarrow \begin{pmatrix} -5.4542512971447 \\ 22.3997117613022 \end{pmatrix}$	
	$C = \text{Point}(c)$	
	$\rightarrow (0, 0)$	
	$D = \text{Point}(a')$	
	$\rightarrow (-11.4542512971447, 26.3997117613022)$	
	$q1 = \text{Polygon}(C, A, D, B)$	
	$\rightarrow 112.5812653792345$	
	$a_1 = \text{Segment}(A, D, q1)$	
	$\rightarrow 7.211102550928$	
	$b_1 = \text{Segment}(B, C, q1)$	
	$\rightarrow 7.211102550928$	
	$c_1 = \text{Segment}(C, A, q1)$	
	$\rightarrow 23.0541958047082$	
	$d = \text{Segment}(D, B, q1)$	
	$\rightarrow 23.0541958047082$	
+	Input...	



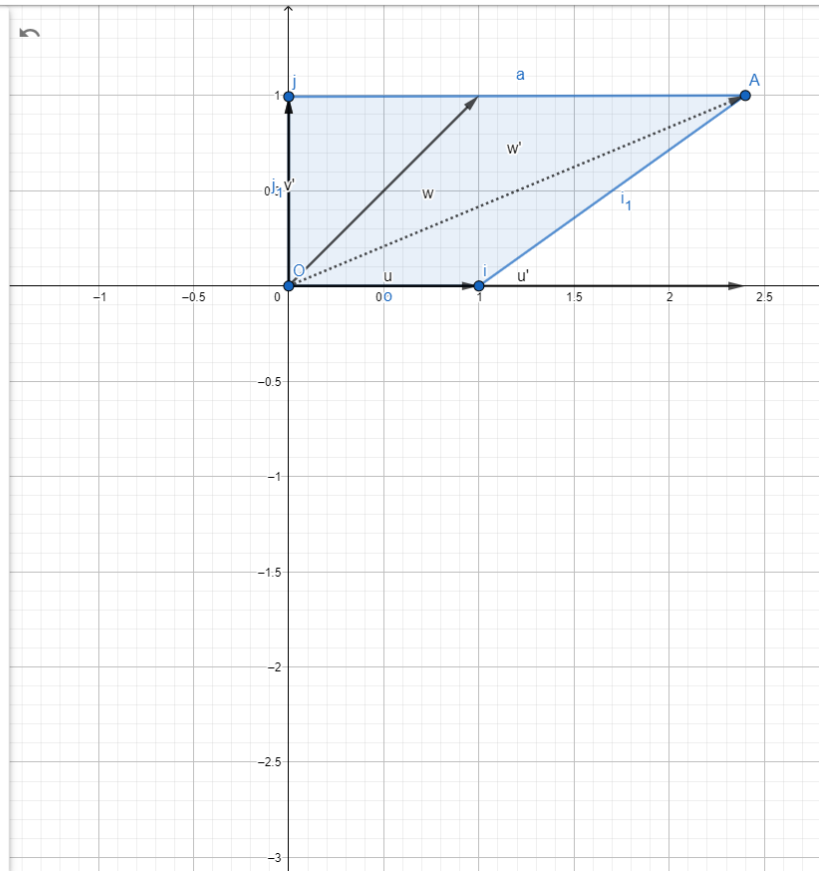


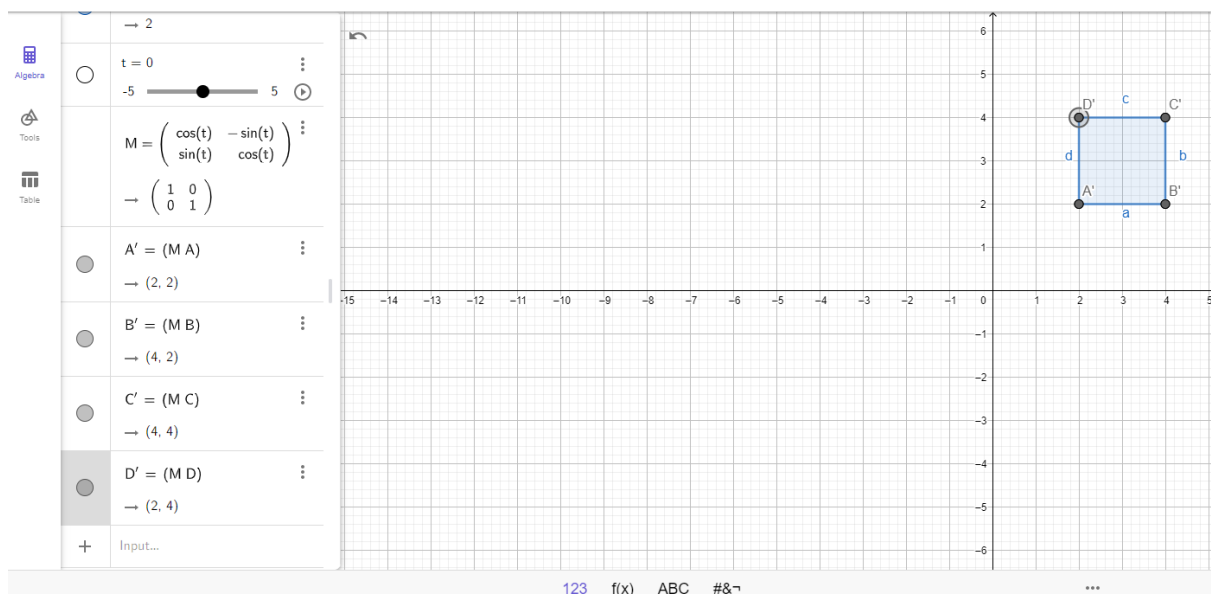
Algebra

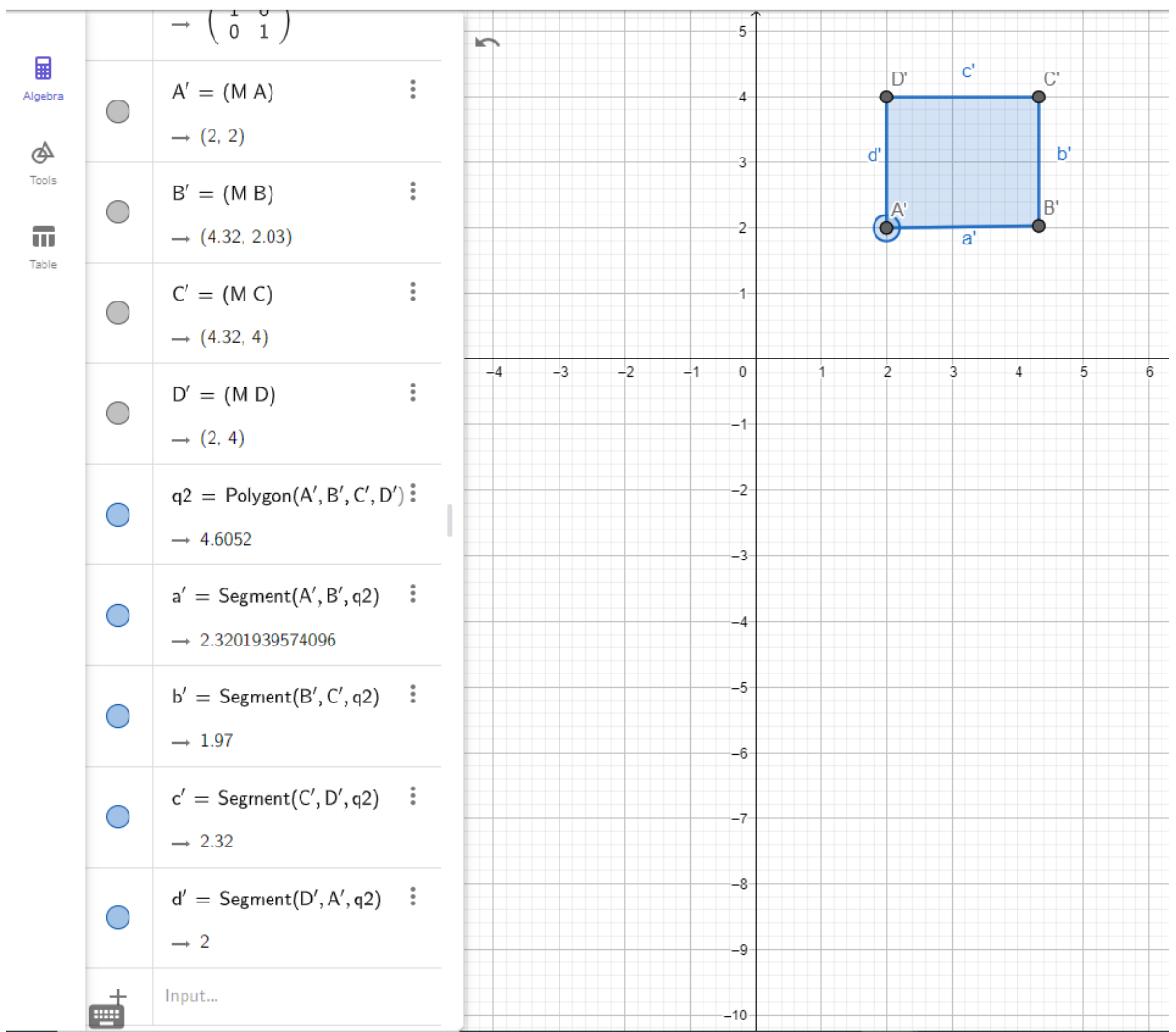
Tools

Table

	$v' = \text{Vector}((M v))$	$\rightarrow \begin{pmatrix} 0.9938502308393 \\ 0 \end{pmatrix}$	$\vdots$
	$w = \begin{pmatrix} 1 \\ 1 \end{pmatrix}$		$\vdots$
	$w' = (M w)$	$\rightarrow \begin{pmatrix} 2.4 \\ 1 \end{pmatrix}$	$\vdots$
	$A = \text{Point}(w')$	$\rightarrow (2.4, 1)$	$\vdots$
	$q1 = \text{Polygon}(O, i, A, j)$	$\rightarrow 1.6926202770071$	$\vdots$
	$a = \text{Segment}(A, j, q1)$	$\rightarrow 2.4000078790831$	$\vdots$
	$i_1 = \text{Segment}(i, A, q1)$	$\rightarrow 1.7204650534085$	$\vdots$
	$j_1 = \text{Segment}(j, O, q1)$	$\rightarrow 0.9938502308393$	$\vdots$
	$o = \text{Segment}(O, i, q1)$	$\rightarrow 1$	$\vdots$
	Input...		







$$w' = (M \cdot w)$$

$$\rightarrow \begin{pmatrix} 2.4 \\ 1 \end{pmatrix}$$

$$A = \text{Point}(w')$$

$$\rightarrow (2.2672153826556, 0.9446730761065) \quad (1)$$

$$q1 = \text{Polygon}(O, i, A, j)$$

$$\rightarrow 2.7590676087824$$

$$a = \text{Segment}(A, j, q1)$$

$$\rightarrow 2.5066025532737$$

$$i1 = \text{Segment}(i, A, q1)$$

$$\rightarrow 1.5805828186968$$

$$j1 = \text{Segment}(j, O, q1)$$

$$\rightarrow 2.0136869996492$$

$$o = \text{Segment}(O, i, q1)$$

$$\rightarrow 1$$

GeoGebra Calculator Suite

