Enlargements

Enlargements and Invariance

Using the Determinant

Example

are points on a triangle. The transformation with matrix is applied to the triangle to produce a new triangle with vertices and .

(a) Determine the coordinates of .

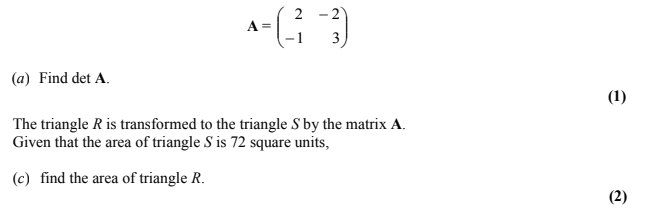
(b) What is the area of triangle ?

(c) What is the area of triangle ?

(d) Determine . What do you notice?

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| --- | --- | --- |
| **Area of Object** | **Transformation Matrix** | **Area of Image** |
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Test Your Understanding



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