Apr. 24, 2019

Mini Lesson #2 (TASK 2 & 3)

Outcome SS5: Demonstrate an understanding of line and rotation symmetry

May 13th, 2015

Jan 21-8:53 AM

Dec. 1, 2017

7.6 Rotations and Rotational Symmetry

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In general, for rotational symmetry:

$$\text{the angle of rotation symmetry} = \frac{360°}{\text{the order of rotation}}$$

rotational symmetry: the property of a shape that it coincides with itself after a rotation of less than 360° about its centre

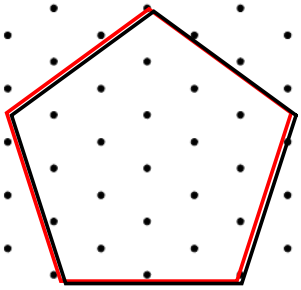
https://www.youtube.com/watch?v=qlWXuT4R3oI

angle of rotation symmetry: the minimum angle required for a shape to rotate and coincide with itself

order of rotational symmetry: the number of times a shape coincides with itself during a rotation of 360°

May 12-2:29 PM

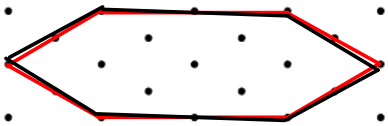
State the order of rotation and the angle of rotation symmetry.



Order =

Angle of Rotation $= \frac{360^\circ}{5} = 72^\circ$

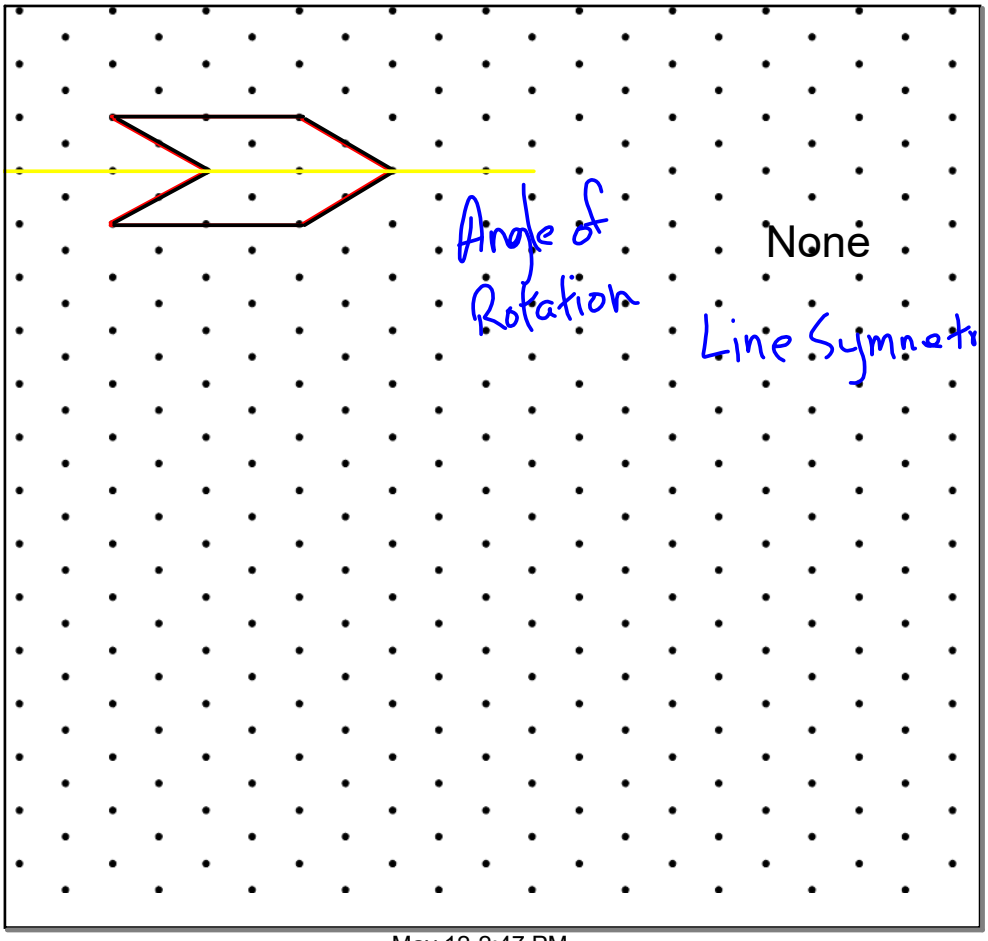
May 12-2:47 PM



Order =

Angle of Rotation $= \frac{360^\circ}{2} = 180^\circ$

May 12-2:47 PM



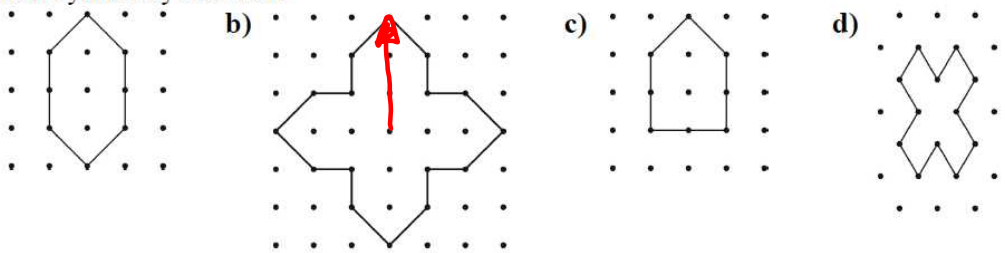
May 12-2:47 PM

Mini Lesson #2

Lesson 7.6 Reflections and Line Symmetry

1. Which polygons have rotational symmetry? State the order of rotation and the angle of rotation symmetry for each.

a) b) c) d)



$\frac{360^\circ}{2} = 180^\circ$

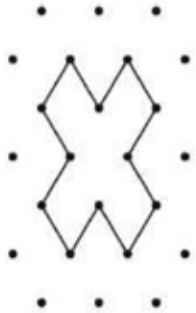
$\frac{360^\circ}{4} = 90^\circ$

None

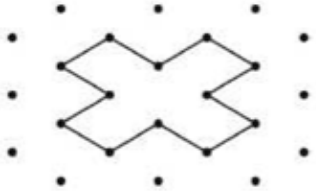
$\frac{360^\circ}{2} = 180^\circ$

May 9-1:12 PM

d)



e)



Nov 29-2:46 PM

End of mini lesson #2

Nov 29-12:09 PM