

Classifying triangles

Worksheet

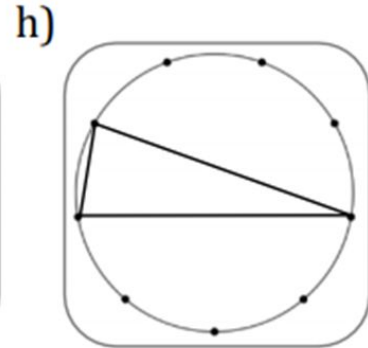
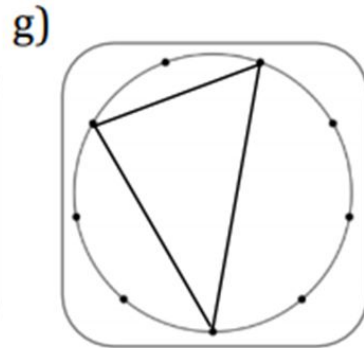
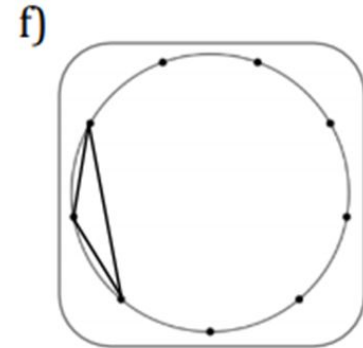
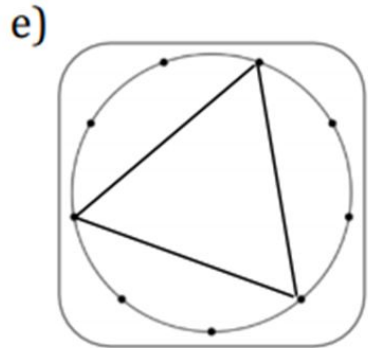
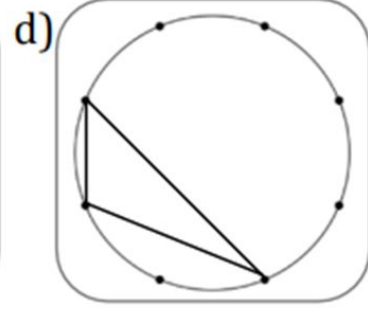
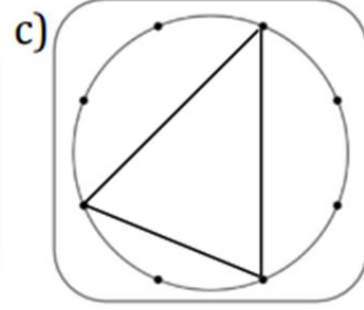
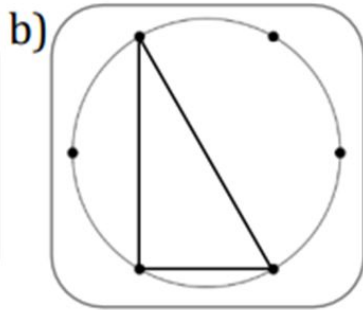
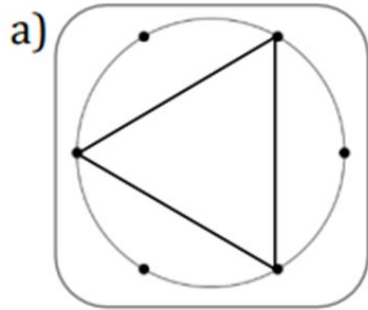
Mathematics

Miss Oreyomi



Questions

1. State with a reason if the following triangles are equilateral, isosceles or scalene



Questions

2. Decide if the following statements are always, sometimes or never true. Sketch a triangle to justify your responses.
- a) Equilateral triangles have three lines of symmetry
 - b) An isosceles triangle has order of rotational symmetry order two
 - c) A triangle has the same number of line symmetries as its order of rotational symmetry
 - d) A scalene triangle has no symmetries.
 - e) The equal sides on an isosceles triangle are longer than the third side.
 - f) Right-angle triangles are also scalene.



Questions

Copy and complete the table of types of triangles below. Where the triangle is possible, draw an example, otherwise write 'impossible'. Remember to label angles and sides that are equal.

| | Scalene | Isosceles | Equilateral |
|----------------------------|---------|-----------|-------------|
| No right angles | | | |
| Exactly one right angle | | | |
| No obtuse angles | | | |
| Exactly one obtuse angle | | | |
| More than one obtuse angle | | | |

