TEST YOUR SKILLS

TEST

1 [[[[In every isosceles triangle: A all three sides have the same length. B the length of one side must be twice the length of another side. C there are at least two angles with the same amplitude. D none of these answer. (USA Northern State University: 48th Annual Mathematics Contest, 2001) 	3	 Of the following sets of data, the only one that does not determine a triangle is: A the lengths of two sides and the amplitude of the included angle. B the lengths of three sides. C the amplitudes of two angles. D the amplitudes of two angles and the length of the included side. E the lengths of two sides and the perimeter.
2	 A triangle cannot be: 1. isosceles and right; 2. equiangular and scalene; 3. equilateral and right. Which of the above statements is true? A 1 only. B 2 only. C 3 only. D 1 and 2 only. E 2 and 3 only. (USA Northern State University: 50th Annual Mathematics Contest, 2003) 	4	Which of the figures below is a convex polygon? Which of the figures below is a convex polygon? D 2 and 3 only D 2 and 3 only D 2 and 3 only D 3 only C 3 only (USA Northern State University: 50th Annual Mathematics Contest, 2003)

GLOSSARY

amplitude: ampiezza	equilateral: equilatero	polygon : poligono
convex: convesso	isosceles: isoscele	right: retto
equiangular:	length: lunghezza	scalene : scaleno
equiangolare	perimeter: perimetro	twice : doppio