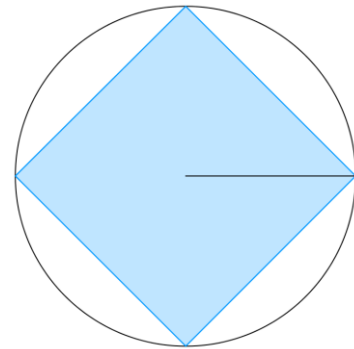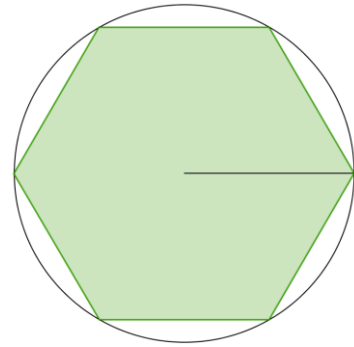The area of a square inscribed in a circle with a unit radius is, satisfyingly, 2.

What is the area of a rectangular hexagon inscribed in a circle with a unit radius?

What is the area of an equilateral triangle inscribed in a circle with a unit radius?