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class Circle(object):
"""Represents a Circle model using its center point and radius
def __init__(self, center_x: float, center_y: float, radius:
                                    float):
    self.X: float = center_x
    self.Y: float = center_y
    self.R: float = radius
def __str__(self):
    display = ("(%f, %f) R=%f" % (self.X, self.Y, self.R))
    return display
@classmethod
def GenerateModelFrom3Points(cls, points):
    [p1, p2, p3] = points
    x1, x2, x3 = p1[0], p2[0], p3[0]
    y1, y2, y3 = p1[1], p2[1], p3[1]
    c = (x1 - x2) ** 2 + (y1 - y2) ** 2

a = (x2 - x3) ** 2 + (y2 - y3) ** 2

b = (x3 - x1) ** 2 + (y3 - y1) ** 2
    s = 2 * (a * b + b * c + c * a) - (a * a + b * b + c * c)
    px = (a * (b + c - a) * x1 + b * (c + a - b) * x2 + c * (a)
                                         + b - c) * x3) / s
    py = (a * (b + c - a) * y1 + b * (c + a - b) * y2 + c * (a)
                                         + b - c) * y3) / s
    ar = a ** 0.5
    br = b ** 0.5
    cr = c ** 0.5
    r = ar * br * cr / ((ar + br + cr) * (-ar + br + cr) * (ar
                                         - br + cr) * (ar + br -
                                         cr)) ** 0.5
    circ = Circle(px, py, r)
    return circ
```