Coordinate Geometry Unit Exam: Problem 43

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We simply plug in each point into the equation of the circle.

$$A(-1,1) \tag{1}$$

$$(-1)^2 + (1)^2 = 2 < 5 \tag{2}$$

The point is within the circle.

$$B(-2,1) \tag{3}$$

$$(-2)^2 + (1)^2 = 5 = 5 \tag{4}$$

the point is on the circle.

$$C(4,-8) \tag{5}$$

$$(4)^2 + (-8)^2 = 16 + 64 > 5 \tag{6}$$

The point is outside of the circle.

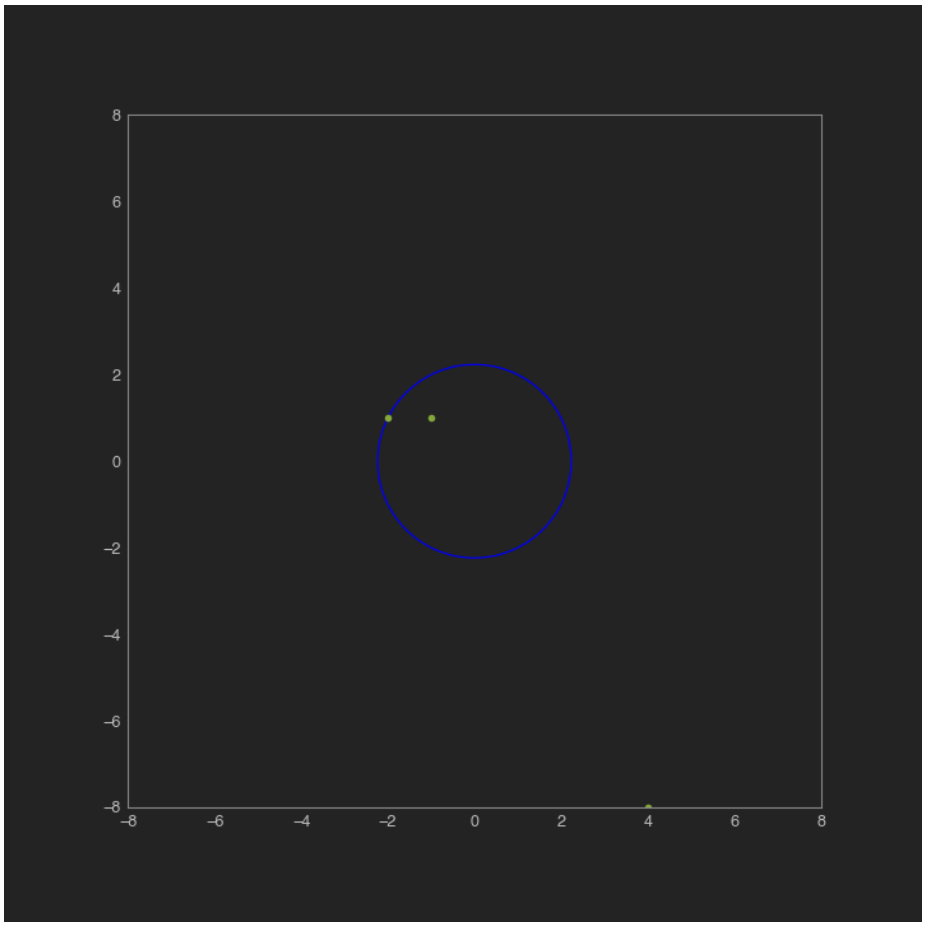

Figure 1: Circle with Points