29. Given an array of points where points[i] = [xi, yi] represents a point on the X-Y plane and an integer k, return the k closest points to the origin (0, 0). The distance between two points on the X-Y plane is the Euclidean distance (i.e., $\sqrt{(x1 - x^2)^2 + (y1 - y^2)^2}$). You may return the answer in any order. The answer is guaranteed to be unique (except for the order that it is in).

```
PROGRAM:

import math

def kClosest(points, k):

    distances = [(point, math.sqrt(point[0]*2 + point[1]*2)) for point in points]

    distances.sort(key=lambda x: x[1])

    return [point[0] for point in distances[:k]]

points = [[1,3],[-2,2],[5,-1]]

k = 2

print(kClosest(points, k))

[[-2, 2], [1, 3]]

OUTPUT:
```

TIME COMPLEXITY: O(n log k)