Problem 2.

With Shepard interpolation and exponent $p=2$.

The distance between point P and other points are as below:

$d(P,A) = 2.44949$

$d(P,B) = 3$

$d(P,C) = 3.77166$

$d(P,D) = 5.19615$

$d(P,E) = 5.47723$

$d(P,F) = 5.91608$

With radius 6, we consider all points.

$f(P) = 8.36538$