I. Let $O$ denote the origin. Calculate the following points:

$I_{O,5}(0, 4), I_{O,5}(-1, 4), I_{O,5}(-5, 0), I_{O,5}(3, 7)$.

II. To what line or curve does the inversion $I_{O,5}$ transform the following figures:

(a) The line $x = 2$.
(b) The line $y = x + 10$.
(c) The circle centered at $(2, 0)$ of radius 2.
(d) The circle centered at $(0, 4)$ of radius 4.
(e) The circle centered at $(3, 0)$ of radius 1.
(f) The circle centered at $(6, 0)$ of radius 3.
(g) The line $y = 3x$. 