

19. $\phi [x + y, x \log (x + y) - z] = 0$
20. $\phi \left[x^2 + \frac{1}{2} e^y + x - z, 2x + y \right] = 0$
21. $\phi (x + y + z, xyz) = 0$
22. $\phi [x^2 + y^2, ye^{(x^2 + y^2)} - z] = 0$
23. $\phi \left[xy + yz + zx, \frac{x - y}{y - z} \right] = 0$
24. $\phi \left[\frac{y}{z}, \frac{x^2 + y^2 + z^2}{z} \right] = 0$
25. $x^2 + y^2 + z^2 + \lambda (x + y + z) = \lambda_1$, Spheres passes through the plane.