№3. $x^2z+y^2z-4=0$; $M_0(-2;0;1)$

$$F'_x|_{M_0}(x-x_0)+F'_y|_{M_0}(y-y_0)+F'_z(z-z_0)=0$$

$$F'_x|_{M_0}=2xz|_{M_0}=-4$$

$$F'_y|_{M_0}=2yz|_{M_0}=0$$

$$F'_z|_{M_0}=(x^2+y^2)|_{M_0}=5$$

$$-4(x+2)+0(y-0)+5(z-1)=0$$

$$\boxed{4x-5z+13=0 \text{ — касат. плоскость}}$$

$$\frac{x-x_0}{F'_x|_{M_0}}=\frac{y-y_0}{F'_y|_{M_0}}=\frac{z-z_0}{F'_z|_{M_0}}$$

$$\boxed{\frac{x+2}{-4}=\frac{y-0}{0}=\frac{z-1}{5} \text{ — нормаль}}$$