

$$b.) \vec{r}(t) = (t+1)\vec{i} + (t^2+1)\vec{j} + (t^3+1)\vec{k}; \quad u = T(1, 1, 1)$$

$$x(t) = t+1; \quad x'(t) = 1$$

$$y(t) = t^2+1; \quad y'(t) = 2t$$

$$z(t) = t^3+1; \quad z'(t) = 3t^2$$

$$x(t_0) = 2 \quad x'(t_0) = 1$$

$$y(t_0) = 2 \quad y'(t_0) = 2$$

$$z(t_0) = 2 \quad z'(t_0) = 3$$

$$TNG: \vec{r}(u) = (2\vec{i} + 2\vec{j} + 2\vec{k}) + (\vec{i} + 2\vec{j} + 3\vec{k}) \cdot u$$

$$KANONSKI: \frac{x-2}{1} = \frac{y-2}{2} = \frac{z-2}{3}$$

c.) $\vec{r}(t) = 3t\vec{a} + \vec{b} - t^2\vec{c}$ u tački za koju je $t=2$, gdje su \vec{a}, \vec{b} i \vec{c} konkl. vektori i $3\vec{a} - 2\vec{c} \neq 0$

$$x(t) = 3t; \quad x'(t) = 3$$

$$y(t) = 1; \quad y'(t) = 0$$

$$z(t) = -t^2; \quad z'(t) = -2t$$

$$x(t_0) = 6 \quad x'(t_0) = 3$$

$$y(t_0) = 1 \quad y'(t_0) = 0$$

$$z(t_0) = -4 \quad z'(t_0) = -4$$

$$TNG: \vec{r}(u) = (6\vec{a} + \vec{b} - 4\vec{c}) + (3\vec{a} + 0\vec{b} - 4\vec{c}) \cdot u$$