a)
$$\mathbf{r}(t) = (t)\,\hat{\mathbf{i}} + (\sqrt{6}t^2/2)\,\hat{\mathbf{j}} + (t^3)\,\hat{\mathbf{k}}, \quad t \in [0; 2]$$

b)
$$r(t) = (t \cos t)\hat{i} + (t \sin t)\hat{j}, \quad t \in [0; 1]$$

c)
$$\mathbf{r}(t) = (e^t \cos t) \hat{\mathbf{i}} + (e^t \sin t) \hat{\mathbf{i}} + (e^t) \hat{\mathbf{k}}, \quad t \in [0, 1]$$

d) $r(t) = (t - \sin t)\hat{i} + (1 - \cos t)\hat{j}, \quad t \in [0; 2\pi]$

c)
$$\mathbf{r}(t) = (e^t \cos t) \,\hat{\mathbf{i}} + (e^t \sin t) \,\hat{\mathbf{j}} + (e^t) \,\hat{\mathbf{k}}, \quad t \in [0; 2\pi]$$