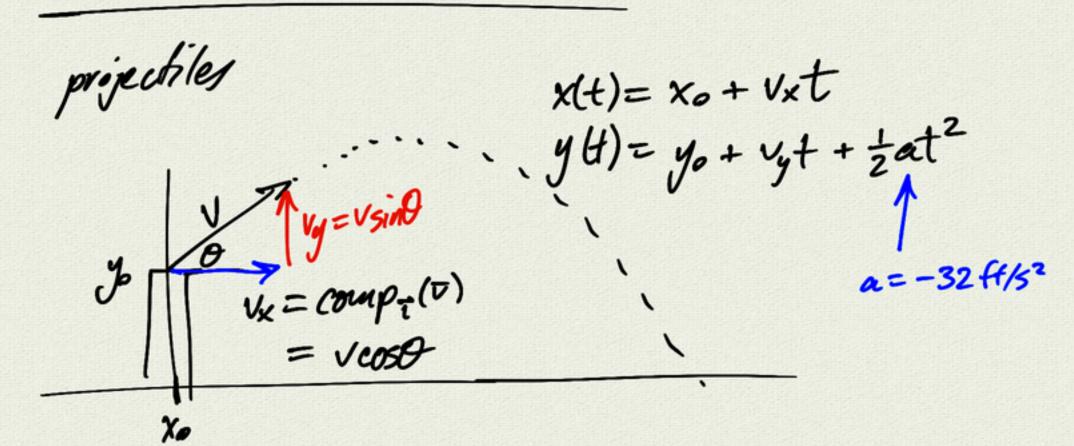


2.1 Vector valued functions (curves)



Real numbers

Re

center
$$(7,6)$$
radius 5
$$|X| = |T| + |Scoresis |$$

$$|X| = |T| + |Scores |$$

$$(g)^{=}(g)^{+}(5\sin t)$$

 $(g)^{=}(g)^{+}(5\sin t)$
 $(g)^{=}(g)^{+}(5\sin t)$
 $(g)^{+}(5\sin t)$
 $(g)^{+}(5\sin t)$
 $(g)^{+}(5\sin t)$

parametrize line
from
$$\begin{pmatrix} 1 \\ 1 \end{pmatrix}$$
 to $\begin{pmatrix} 4 \\ 5 \\ 6 \end{pmatrix}$

$$\overline{r}(t) = \overline{r}(t) = \overline{r}(t) = \overline{r}(t) = \overline{r}(t)$$

$$\overline{r}(t) = \overline{r}(t) + t(\overline{r}, -\overline{r}_0)$$

$$t = 0 \Rightarrow \overline{r}(0) = \overline{r}_0$$

$$t = 1 - \overline{r}(1) = \overline{r}_1$$

$$\overline{r}(t) = \overline{r}_0 + t\overline{r}_1 - t\overline{r}_0$$

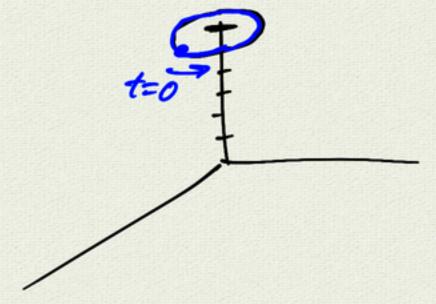
$$= \overline{r}_0(1-t) + t\overline{r}_1$$

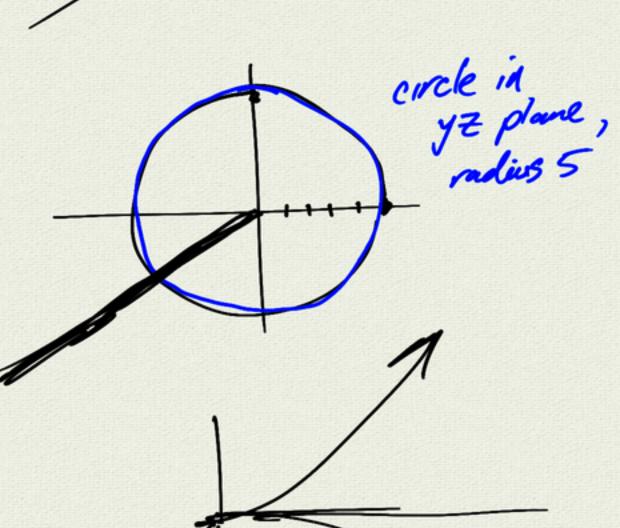
$$= (1-t) \overline{r}_0 + t\overline{r}_1$$

$$F(t) = \begin{pmatrix} \cos t \\ \sin t \\ 5 \end{pmatrix}$$

$$T(t) = \begin{vmatrix} 0 \\ 5cost \\ 5sint \end{vmatrix}$$

$$F(t) = \begin{pmatrix} t \\ t^2 \\ t^3 \end{pmatrix}$$





$$F(t) = \begin{cases} t \cos t \\ t \sin t \end{cases}$$

$$r = 0$$

$$F(t) = \begin{cases} \cos t \\ \sin t \\ t \end{cases}$$

$$A = \begin{cases} \cos t \\ \sin t \\ t \end{cases}$$

$$A = \begin{cases} \cos t \\ \sin t \\ t \end{cases}$$

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