



$$= (1,2,3), \vec{v} = (4,6,9)$$

## NOTES

$$\vec{r}_{3}(t) = \vec{p} + t(2\vec{r}) = (1+8t, 2+12t, 3+18t)$$

4) Q How many parametrizations does L have? A #: One for each choice of point pal PHYSICS INTERPRETATION F(t) = p+tv = POSITION at time t along L THON P = 7 (0) = INITIA POSITION V = VEDCTY (Constant) VELOCITY = CHANGE IN TIME 元(七) = (户+t) - P = V SPECIAL EXS A LINE SEGMENT FROM \$ 70 9 で(日)=ゴャトウ = p+t(q-p) = (1-t)p+tq For O(t() 

$$\vec{z}(t) = \vec{p} + t(\vec{q} - \vec{p}) = (2,4) + t((3,7) - (2,4))$$

$$= (2+t, 4+3+)$$

CONVERT TO y= mict b

$$S_0$$
  $y = 4+3t = 4+3(x-2) = 3x - 2$