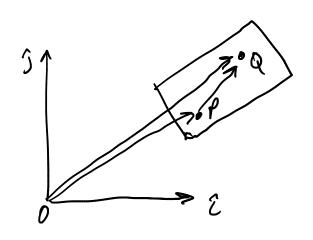
Rigid Bodies and notation

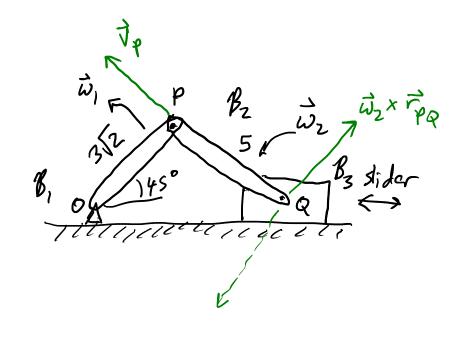


$$\vec{r}_{Q} = \vec{r}_{p} + \vec{r}_{pQ}$$

$$\vec{r}_{Q} = \vec{r}_{p} + \vec{\omega} \times \vec{r}_{pQ}$$

$$\vec{r}_{e} = \vec{\omega} \times \vec{r} \quad \text{if } \vec{r} \quad \text{is only notating (no length change).}$$

ex



$$\vec{w}_{1} = 2\hat{k} \text{ rad/s} \qquad \vec{w}_{2}^{7}.$$

$$\vec{r}_{pq} = 32 + 3\hat{j}$$

$$\vec{r}_{pq} = 42 - 3\hat{j}$$

$$\vec{v}_{p} = \vec{v}_{0} + \vec{w}_{1} \times \vec{r}_{0p}$$

$$\vec{z}_{k} \times (3\hat{c} + 3\hat{j})$$

$$= -6\hat{c} + 6\hat{j}$$

 $\hat{c}_{k} \leftarrow \hat{c}_{q} \leftrightarrow \hat{c}_{moves} \Leftrightarrow \hat{c}_{moves} \Leftrightarrow \hat{c}_{moves} \leftrightarrow \hat{c}_{move} \Rightarrow \hat{c}_{move} \Leftrightarrow \hat{c$

$$\vec{r}_{p} = \vec{r}_{Q} + \vec{r}_{PQ}$$

$$\vec{r}_{p} = \vec{r}_{Q} + \vec{r}_{Q}$$

$$\vec{r}_{Q} = \vec{r}_{Q}$$

$$\vec{r}_{Q} = \vec{r}_{Q} + \vec{r}_{Q}$$

$$\vec{r}_{Q} = \vec{r}_{Q}$$

$$\vec$$