at wheel 3, 
$$V_3 = S_s = 3t^2-6$$
 $V_3 = W_3 \Gamma_3 \implies W_3 = \frac{V_3}{\Gamma_3} = \frac{3t^2-6}{\Gamma_3^2}$ 

all paints have the same relocity at  $\Gamma_3$ 
 $V_c = W_3 R_3 = \frac{R_3}{\Gamma_3} \left( 8t^2-6 \right)$ 

$$V_{c} = \omega_{2} \Gamma_{2} \implies \omega_{2} = \frac{R_{3}}{\Gamma_{7}} \Gamma_{2} (3t^{2} - 6)$$

$$V_{g} = \omega_{2} R_{2} = \frac{R_{1} R_{3}}{R_{3} \Gamma_{2}} (3t^{2} - 6)$$

$$Q_{G} = V_{G}^{2} R_{2} = \frac{R_{2}^{2} R_{3}}{\Gamma_{2} R_{3}} 6t$$

$$Q_{Hg} = \omega_{1}^{2} R_{2} = R_{2} \left( \frac{R_{3}^{2}}{\Gamma_{2} R_{3}} (3t^{2} - 6) \right)^{2}$$

$$Q_{g} = \int a_{Tg} + a_{Hg}$$

$$V_{1} = \omega_{2} R_{2} = \frac{R_{2} R_{3}}{\Gamma_{2} \Gamma_{3}} (3t^{2} - 6)$$

$$V_{c} = \omega_{1} \Gamma_{1} \Rightarrow \omega_{1} = \frac{R_{2} R_{3}}{\Gamma_{1} \Gamma_{3}} (3t^{2} - 6)$$

$$V_{g} = \omega_{1} R_{1} = \frac{R_{1} R_{1} R_{3}}{\Gamma_{1} \Gamma_{2} \Gamma_{3}} (3t^{2} - 6)$$

$$V_{g} = \omega_{1} R_{1} = \frac{R_{1} R_{1} R_{3}}{\Gamma_{1} \Gamma_{2} \Gamma_{3}} (3t^{2} - 6)$$

$$V_{4} = V_{A} = \frac{R_{1}R_{2}R_{3}}{S_{1}S_{2}S_{3}}$$
 (3t<sup>2</sup>-6)  
 $a_{11} = V_{11} = \frac{R_{1}R_{2}R_{3}}{S_{1}S_{2}S_{3}}$  6t