

last minute

$$0 \leq \frac{K}{H} \leq \frac{1}{2}$$

$$\frac{1}{2} \frac{\left( (1-\alpha) \left( \frac{V}{2} - \frac{Kt}{4H} \right) + \alpha \left( V - \frac{Kt}{2H} \right) \right)}{\left\{ \frac{V}{2} - \frac{Kt}{2H} \right\}} \left( 1 - \frac{K}{2H} \right) \frac{\left( (1-\alpha) \left( V - \frac{t}{2} \right) + \alpha \left( V - \frac{Kt}{2H} \right) \right)}{\left\{ V - \frac{t}{2} \right\}} \left( \frac{3}{2} - \frac{K}{H} \right) \frac{\left( (1-\alpha) \left( t - \frac{Kt}{H} \right) + \alpha \left( V - \frac{Kt}{2H} \right) \right)}{\left\{ t - \frac{Kt}{H} \right\}}$$

$$J = L \Rightarrow \alpha = 0: \quad H = \infty \Rightarrow \frac{K}{H} = 0$$

$$\frac{1}{2} \frac{\left\{ \frac{V}{2} \right\}}{\left\{ \frac{V}{2} \right\}} \left( 1 - \frac{K}{2H} \right) \frac{\left\{ V - \frac{t}{2} \right\}}{\left\{ V - \frac{t}{2} \right\}} \left( \frac{3}{2} - \frac{K}{H} \right) \frac{\left\{ t \right\}}{\left\{ t \right\}} \quad \text{both periods agree}$$

$$\frac{1}{2} \leq \frac{K}{H} \leq \frac{2}{3}$$

$$\frac{1}{2} \frac{\left\{ \frac{V}{2} \right\}}{\left\{ \frac{V}{2} \right\}} \frac{K}{H} \frac{\left( (1-\alpha) \left( \frac{V}{2} - \frac{Kt}{4H} \right) + \alpha \left( V - \frac{Kt}{2H} \right) \right)}{\left\{ \frac{V}{2} - \frac{Kt}{2H} \right\}} \left( 1 - \frac{K}{2H} \right) \frac{\left( (1-\alpha) \left( V - \frac{t}{2} \right) + \alpha \left( V - \frac{Kt}{2H} \right) \right)}{\left\{ V - \frac{t}{2} \right\}} \left( \frac{3}{2} - \frac{K}{H} \right) \frac{\left( (1-\alpha) \left( t - \frac{Kt}{H} \right) + \alpha \left( V - \frac{Kt}{2H} \right) \right)}{\left\{ t - \frac{Kt}{H} \right\}}$$

$$J = H \Rightarrow \alpha = 1$$

$$\frac{1}{2} \frac{\left\{ \frac{V}{2} \right\}}{\left\{ \frac{V}{2} \right\}} \frac{K}{H} \frac{\left\{ V - \frac{Kt}{2H} \right\}}{\left\{ \frac{V - \frac{Kt}{2H}}{2H} \right\}} \left( 1 - \frac{K}{2H} \right) \frac{\left\{ V - \frac{Kt}{2H} \right\}}{\left\{ \frac{V - \frac{Kt}{2H}}{2H} \right\}} \left( \frac{3}{2} - \frac{K}{H} \right) \frac{\left\{ V - \frac{Kt}{2H} \right\}}{\left\{ \frac{V - \frac{Kt}{2H}}{2H} \right\}} = \frac{1}{2} \frac{\left\{ \frac{V}{2} \right\}}{\left\{ \frac{V}{2} \right\}} \frac{K}{H} \frac{\left\{ V - \frac{Kt}{2H} \right\}}{\left\{ \frac{V - \frac{Kt}{2H}}{2H} \right\}}$$