



$$\psi = -Uy + A \sin[k(x-ct)]$$

Plots of streamfunction, ψ , at $t = 0$ for a) $A = 0 \times 10^6 \text{m}^2\text{s}^{-1}$, b) $A = 2 \times 10^6 \text{m}^2\text{s}^{-1}$, and c) $A = 5 \times 10^6 \text{m}^2\text{s}^{-1}$. In these plots shown, $U = 10 \text{ms}^{-1}$ and $k = 2\pi/(2.5 \times 10^6 \text{m}^{-1})$.