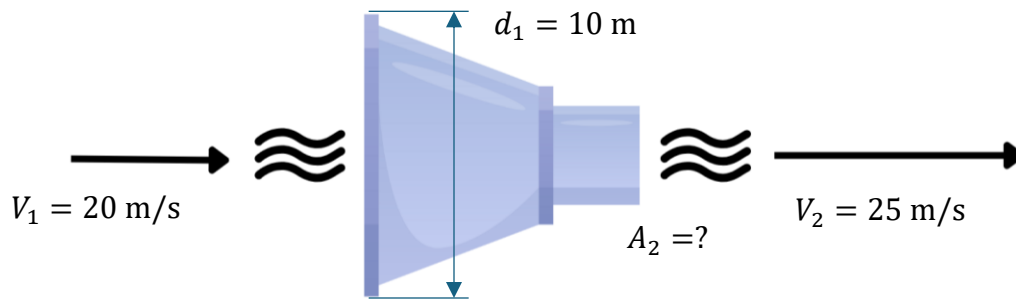


(EXAMPLE) [A-3-1]



Consider a convergent circular duct with an inlet diameter: $d_1 = 10 \text{ m}$. Air enters this duct with a velocity: $V_1 = 20 \text{ m/s}$ and exits the duct with a velocity: $V_2 = 25 \text{ m/s}$. What is the corresponding outlet area of the duct: A_2 ?

Suppose, if the inlet and outlet velocities become: $V_1 = 200 \text{ m/s}$ and $V_2 = 250 \text{ m/s}$, respectively, will the similar analysis still apply?

Lined area for notes, consisting of multiple horizontal dashed lines.