Answer on Question \#63144, Physics / Mechanics | Relativity
A person reached the point directly opposite on the other bank of flowing river while swimming at the speed of 5 metre per second at the angle of 120 degree with the flow the speed of flow must be

Find: Vflow ?
Given:
$v_{\text {person }}=5 \mathrm{~m} / \mathrm{s}$
$\theta=120^{\circ}$

## Solution:



Of Figure $\Rightarrow \sin 30^{\circ}=\frac{\mathrm{v}_{\text {flow }}}{\mathrm{v}_{\text {person }}}(1)$
Of (1) $\Rightarrow v_{\text {flow }}=v_{\text {person }} \times \sin 30^{\circ}$ (2)
Of (2) $\Rightarrow \mathrm{v}_{\text {flow }}=2.5 \mathrm{~m} / \mathrm{s}$
Answer:
$2.5 \mathrm{~m} / \mathrm{s}$

