## Answer on Question \#65990-Physics-Other

Two ice skaters hold one arm each of a third skate and each pulls with a force of 150 N . calculate the resultant force pulling the third skater forward if the angle between his arms is a right angle

## Solution

The angle between forces is a right angle. Thus, the resultant force pulling the third skater forward will be

$$
F_{\text {res }}=\sqrt{F^{2}+F^{2}}=\sqrt{2} F=150 \sqrt{2} \approx 212 \mathrm{~N} .
$$

Answer: 212 N.

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