# A Three-Speedy-Whales Problem 

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Once upon a time three whales were swimming along the north-south shoreline in the ocean near the island. Children at the island lighthouse observed the whales' motion and drew their position-time graphs in cartesian coordinates. They noticed that intersections of three graphs form an isosceles triangle (see figure below). If the first whale swam at $7 \mathrm{~m} / \mathrm{s}[\mathrm{N}]$ and the second one at $1 \mathrm{~m} / \mathrm{s}[\mathrm{N}]$, what is the velocity of the third whale?


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