## **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 m/s [N] and the second one at 1 m/s [N], what is the velocity of the third whale?



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