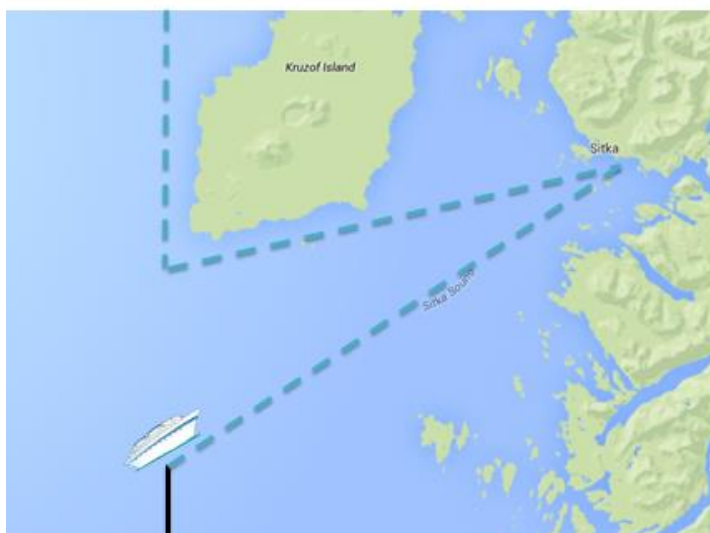


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## Place-Based Problem #1 Triangles and Angle Relationships

Sitka has a busy ports of harbor. In the summer you can see boats coming and going including large cruise ships. If a cruise ship is traveling due north and makes a  $60^\circ$  degrees turn towards Sitka and when it leaves Sitka it travels on a path  $20^\circ$  degrees from the path it came in on. What is the angle it will need to turn to again head due north. Use the Google map to help.



I drew a triangle and used the property of a triangle to find the missing angle of the triangle. This angle is the vertical angle to the angle the cruise ship would need to turn due west.

