**Trigonometry in Right-Angled Triangles Homework**

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| **Literacy**Trigonometry ~ from Greek trigonon "triangle" + metron "measure” | **Research**Describe how you’d use a clinometer to measure the height of a building. | **Memory** |
| **Skills**7. Knowing in a right angled triangle one of the other angles was 30° identify two different sizes of triangle with exact lengths for two of the edges and neither is an enlargement of the other and none of the lengths can be 2 units long.You must label your triangles with the lengths of all three edges. Leaving answers in root form if needed!Find $x$ in each question. Where necessary, round answers to 1dp. | **Stretch** 1. A radio mast is supported by two  cables as shown. Find the distance  between the two points A and B. 2. A ship sails due north 300km to from position A to position B. It  then sails 450km due east to  position C. What is the bearing  and distance the ship would need  to sail to go directly from C to A? |

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