RIGHT TRIANGLE TRIG., SINE LAW & COSINE LAW

QUOTATION:

$\overline{745}$ $\overline{7.4}$ $\overline{25}$ $\overline{745}$ | $\overline{48°}$ $\overline{25}$ $\overline{329}$ | $\overline{9.6}$ $\overline{30°}$ | $\overline{5.2}$ $\overline{26}$ $\overline{30°}$ $\overline{745}$ $\overline{26}$ $\overline{59}$ | $\overline{60}$ $\overline{7.9}$ $\overline{9.6}$ $\overline{56°}$ $\overline{7.4}$

$\overline{26}$ $\overline{59}$ $\overline{69°}$ | $\overline{7.4}$ $\overline{25}$ $\overline{30°}$ $\overline{59}$ | $\overline{26}$ $\overline{745}$ | $\overline{5.2}$ $\overline{25}$ $\overline{39°}$ $\overline{31}$ $\overline{7.4}$ $\overline{69°}$ $\overline{48°}$

French proverb

Calculate the missing side or angle indicated. Round angles to the *appropriate number of significant digits.* Place the circled letter of the question in the blank above the correct answer in the quotation.
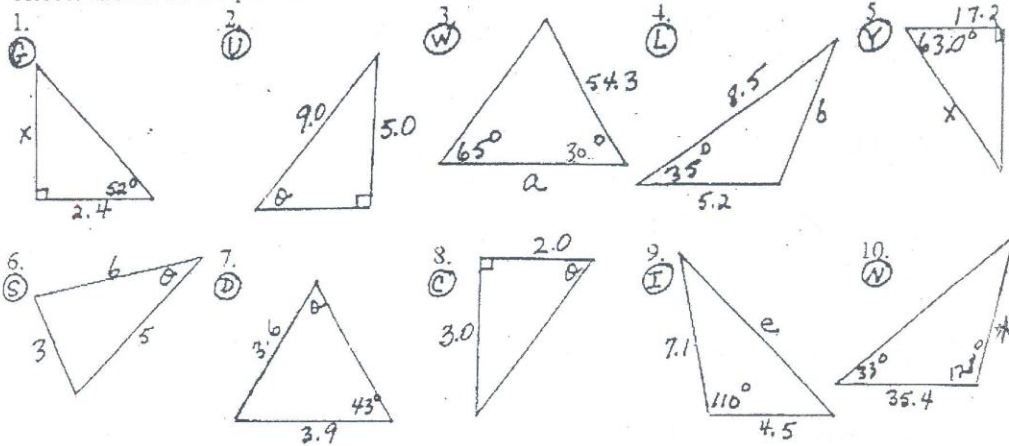
11. From the top of a cliff 301 m high, the angle of depression of a sailboat on the water is 22°. How far is the boat from the cliff? ⓉT

12. The roof lines of a ski chalet make angles of 26° and 73° with the horizontal. The shorter roof line is 3.4 m long. Find the length of the other roof line. Ⓗ

13. Find the largest angle in a triangle with sides of 11, 12 and 13 cm long. Ⓔ

14. Two ships leave a port sailing 17km/h and 21 km/h. The angle between their directions of travel from the port is 38°. How far apart are the ships after 2 h? Ⓞ

15. A tree casts a shadow 23.2 m long when the angle of elevation of the sun is 41°. Find the height of the tree. Ⓐ