***2.5 Solving Triangles***

Summary of triangles & given information:

|  |  |
| --- | --- |
| ***Triangle Type*** | ***Approach*** |
| AAA |  |
| ASA |  |
| AAS |  |
| SSS |  |
| SAS |  |
| SSA |  |
| Right |  |

Remember, to solve a triangle, we are finding \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, then checking to ensure \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

***Example 1:*** Solve the triangle: S= 40o, k = 16m, Y = 72 o

***Example 2:*** A triangle has sides 15.4 cm, 52.8 cm and 55 cm. Find all three angles to the nearest degree.

***Assignment:*** Worksheet: Solving Triangles

***Solving Triangles***

Solve the following to the nearest degree, or 1 decimal place for lengths.

|  |  |
| --- | --- |
| ***1.*** | ***2.*** |
| ***3.*** | ***4.*** |
| ***5.*** | ***6.***    24.1 m |
| ***7.*** | ***8.*** |