PENANG SANGAM HIGH SCHOOL

YEAR 9 WORKSHEET

WEEK 19 - NOTES, EXAMPLES AND EXERCISES

STRAND 5: GEOMETRY

SUB STRAND: Angles

LESSON OBJECTIVE: Students should be able to:

To be able to identify different types of angles between parallel lines and do calculations involving them

NOTE:

Angle Between Parallel Lines



Activity

- In the diagram below, identify the pair of:
- a. allied angles
- b. corresponding angle
- c. alternate angles
- d. vertically opposite angles



Example

1. State whether the given lines are parallel





2. Work out the size of the angles marked with letters.



y + y + 20° = 180° 2y + 20° = 180° 2y = 180° - 20° 2y = 160° y = $\frac{160}{2}$ y = 80° 3. Work out the values of the marked angles in the following:



Exercise:

Use the three properties of angles in parallel lines to calculate the missing angles.

(c) **148°**

