

Marking Scheme: Three questions carry 10 marks each. Questions have 3 subparts each. Subparts (a) and (b) carry 3 marks each and subpart (c) carries 4 marks.

Question 1:

a. In the figure below, AC, DE, FG are straight lines. Find x.



b. In the given figure AB || CD || EF and AE \perp AB. Also, \angle BAE = 90°. Find the values of $\angle x$, $\angle y$ and $\angle z$.



c. State whether the following angles adjacent. If no, give reason(s).



Question 2:

a. In the given figure, AB||CD and \angle ECB = 140°, find \angle ABC.



b. In the given figure, $\triangle ABC$ is an isosceles triangle with AB = BC. Also, $\angle ACD = 126^{\circ}$. Find $\angle A$.



c. Draw the graph of the following linear equation in two variables: x + 2y = 12

Question 3:

a. l and m are parallel lines in the figure. What are the measures of $\angle x$, $\angle y$ and $\angle z$?



b. Find the measure of $\angle AOC$ if AB || CD || XY, $\angle BAO = 135^{\circ}$ and $\angle OCD = 115^{\circ}$.



c. In the given figure, AB||DE, find \angle BCD. Hint: Solve by using suitable constructions of lines parallel to AB.

