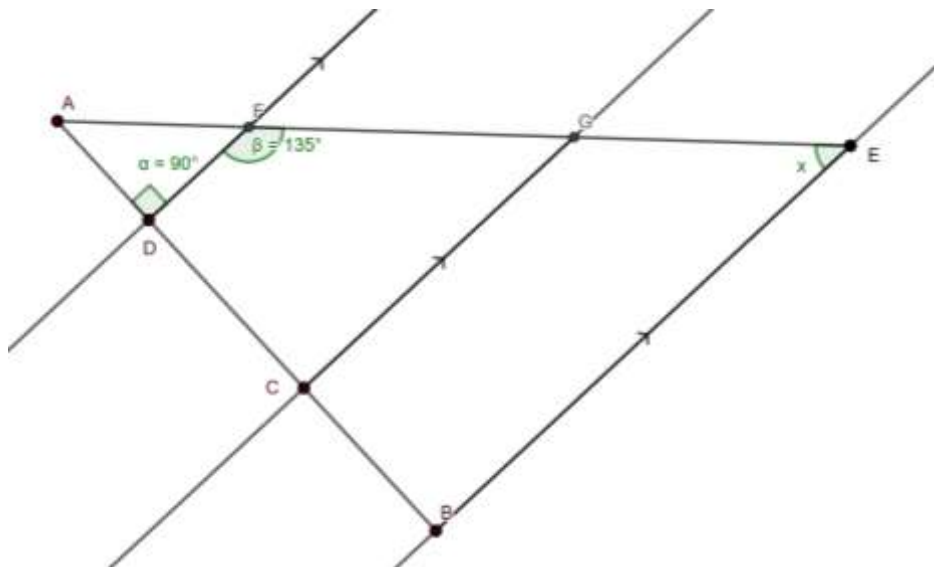


# SHARP

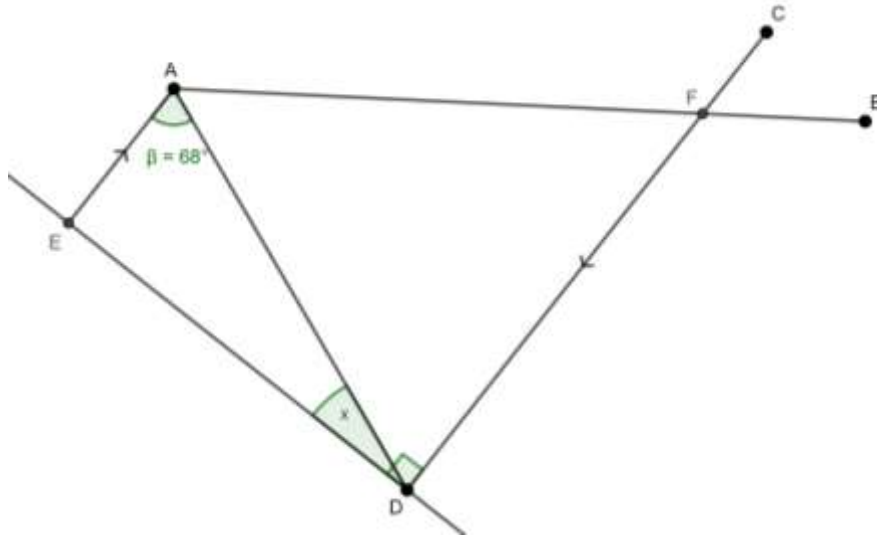
## Worksheet 12: Geometry of Straight Lines

### Grade 9 Maths

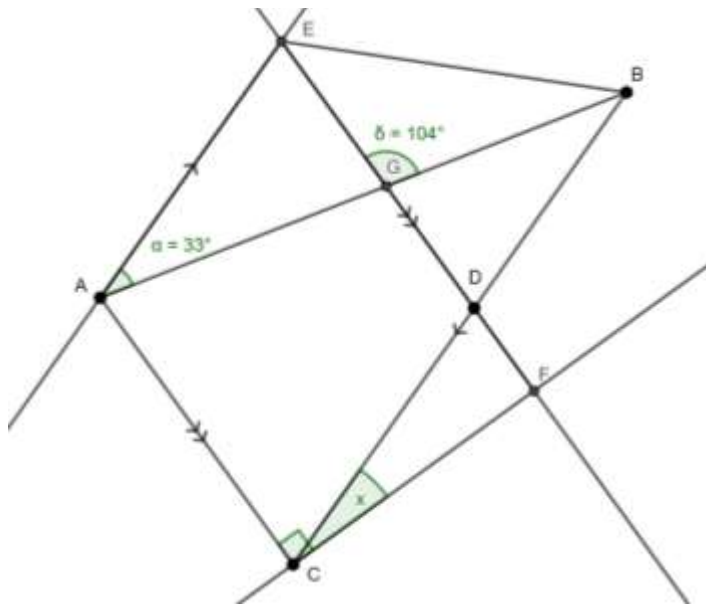
1. Give a description and a diagram for how each of these angle relationships work:
  - a) vertically opposite angles
  - b) supplementary angles
  - c) complementary angles
  - d) co-interior angles
  - e) alternating angles
  - f) corresponding angles.
2. Give the special angle relationships that can result from the following types of lines:
  - a) perpendicular lines
  - b) parallel lines
  - c) intersecting lines
3. In each of the pictures below, find the value of the angle  $x$  with reasons.



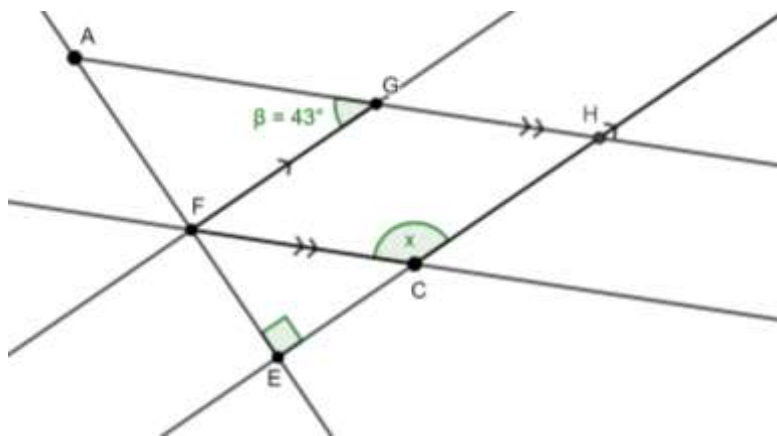
b)



c)



d)



4. For each of the diagrams given below find the values for each of the variables given and give reasons.

