1) a) angle y = 84°

angle z = 57°

b) angle y = 116°

angle z = 52°

c) angle y = 20°

angle z = 93°

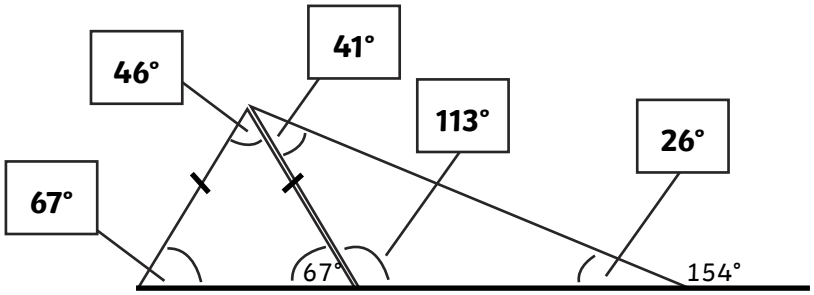
d) angle y = 73°

angle z = 326°

e) angle y = 27°

angle z = 63°

1)



Angles around a point = 360°.	Vertically opposite angles are equal.	Angles on a straight line = 180°.
Angles in a triangle = 180°.	A right angle = 90°.	Isosceles triangles have 2 equal angles.

2) a) This is false. Angle y is not vertically opposite the angle measuring 39°.

b) This is true. Angle x is 49°, which can be found by subtracting 41° and 90° from 180° as angles in a triangle add to 180°.

c) This is false. Although angle z is one of 5 angles around a point, they are not all equal angles.

3) angle x = 49°

angle y = 51°

angle z = 141°

1) angle x =20°

   angle y = 120°

   angle z = 30°

2) Angle x = 315° as two angles in an isosceles triangle are the same and angles around a point add to 360°.

   Angle y = 341° as angles in a triangle add to 180° and angles around a point add to 360°.

   Angle z = 71° as angles around a point add to 360°.

3) angle p = 54°

   angle q = 54°

   angle x =36°

   angle y = 44°

   angle z = 59°