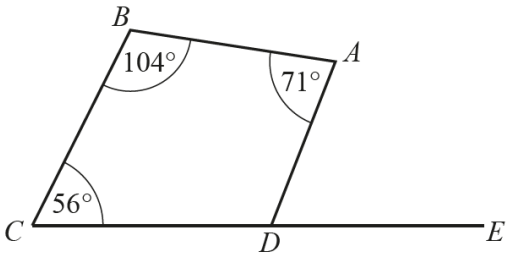
Geometry – 2023 IGCSE Math 0444

1. June/2023/Paper_0444/21/No.1



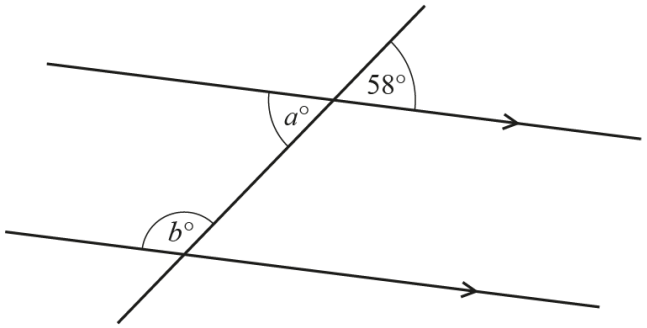
NOT TO SCALE

CDE is a straight line.

Find angle *ADE*.

..... [2]

2. June/2023/Paper_0444/21/No.3



NOT TO SCALE

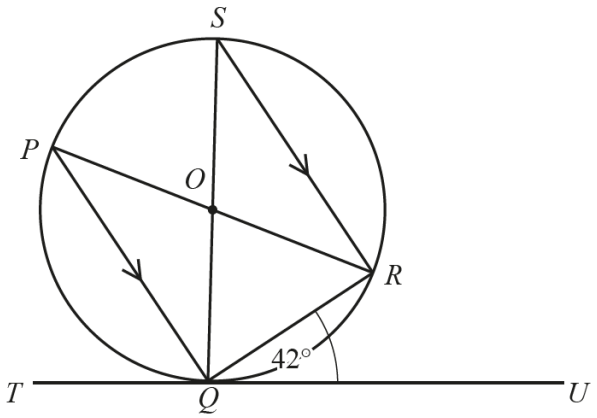
The diagram shows a straight line intersecting two parallel lines.

Find the value of a and the value of b, giving geometric reasons for your answers.

a = ... because .....

b = ... because ..... [4]

3. June/2023/Paper_0444/21/No.12



NOT TO SCALE

P, Q, R, and S are points on the circle, and TQU is a tangent to the circle at Q.
PR and SQ intersect at the center O and PQ is parallel to SR.
Angle $RQU = 42°$.

Find

(a) angle QSR

Angle QSR = ... [1]

(b) angle PQS

Angle PQS = ... [1]

(c) angle POS.

Angle POS = ... [1]