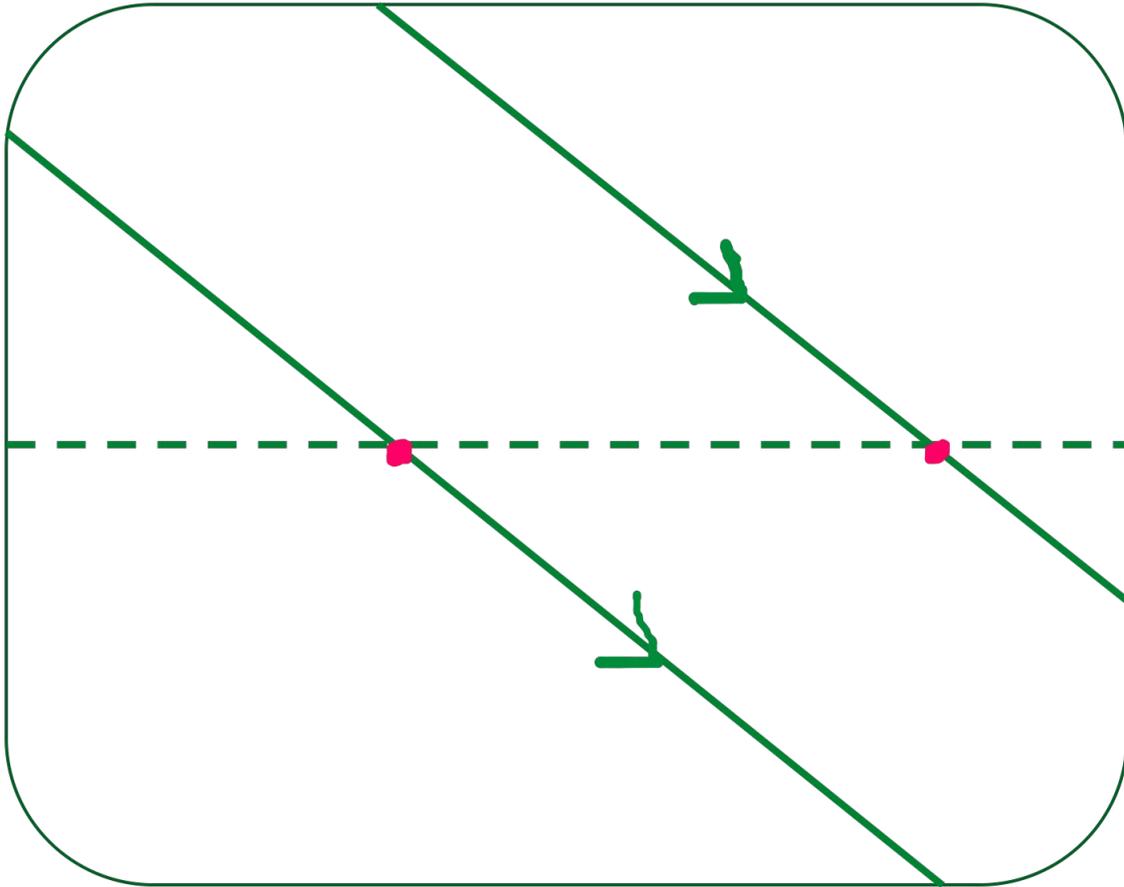


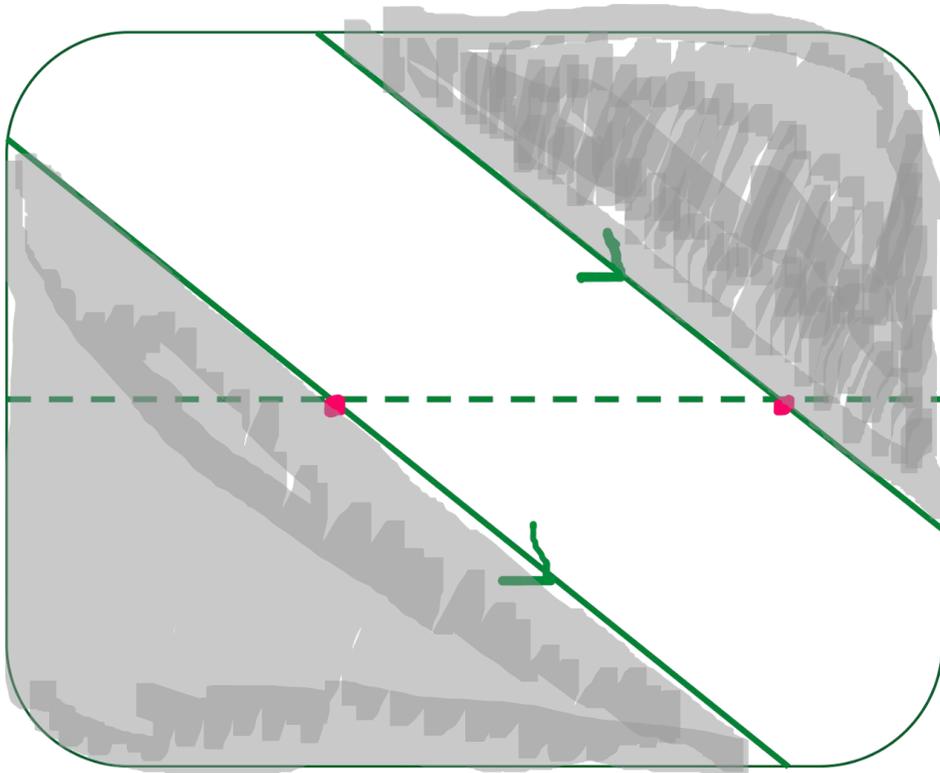
Try this



Given that the two bold lines are parallel, which **transversal angles** are equal?



Connect



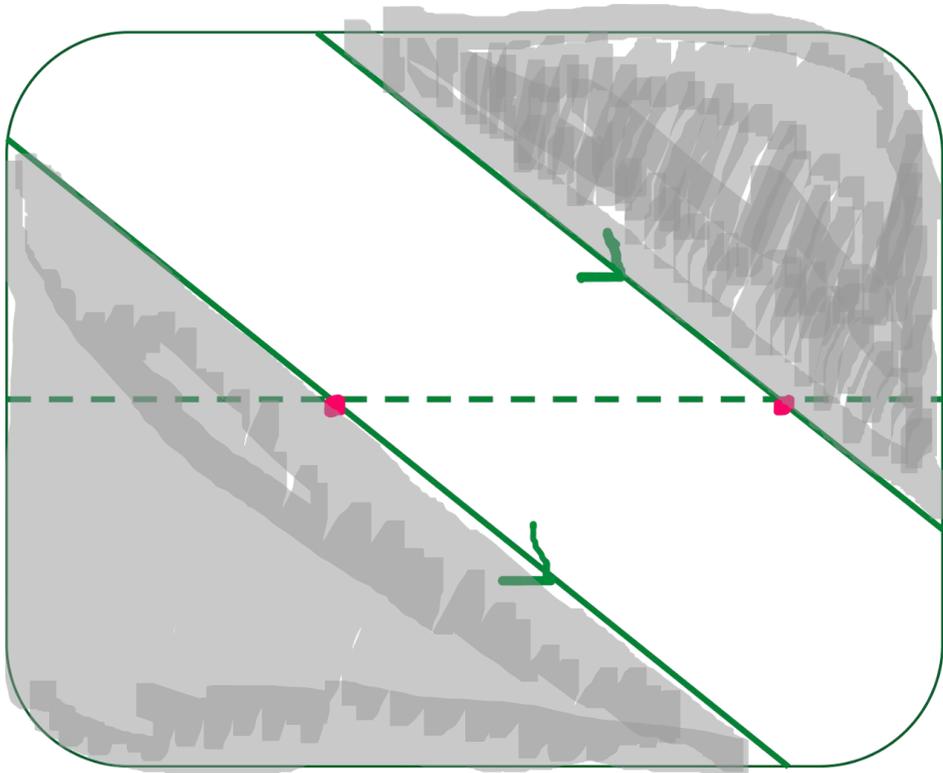
When we have a transversal intersecting two lines in this way there are two regions of importance:

Exterior region

Interior region



Connect

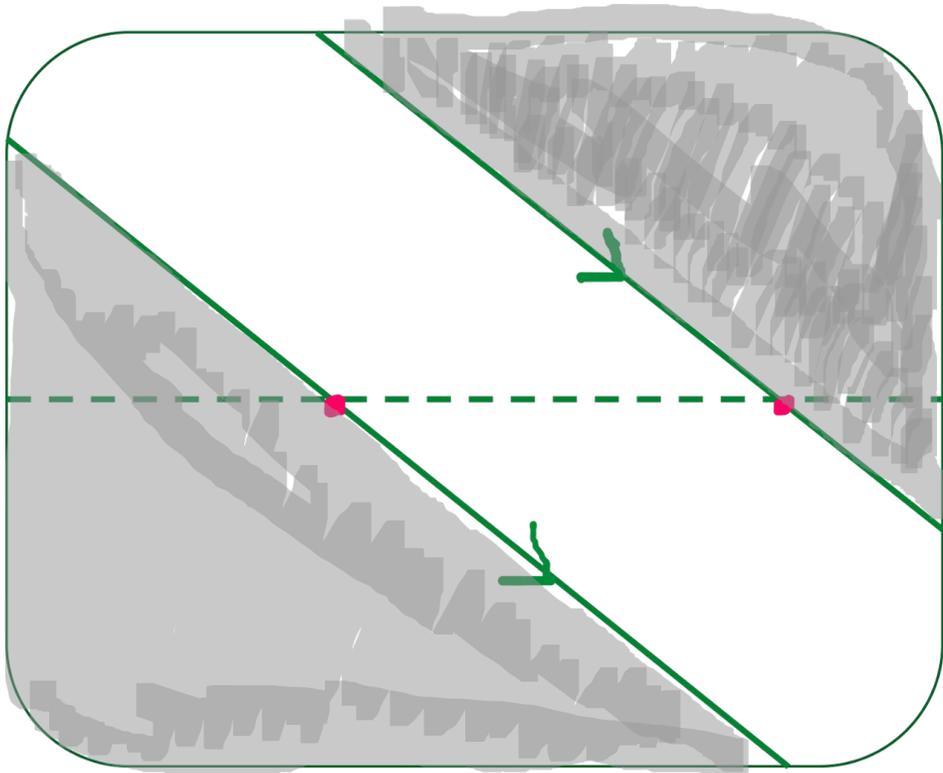


Alternate angles:

- Opposite sides of the transversal
- At different intersection points
- In the same region



Connect



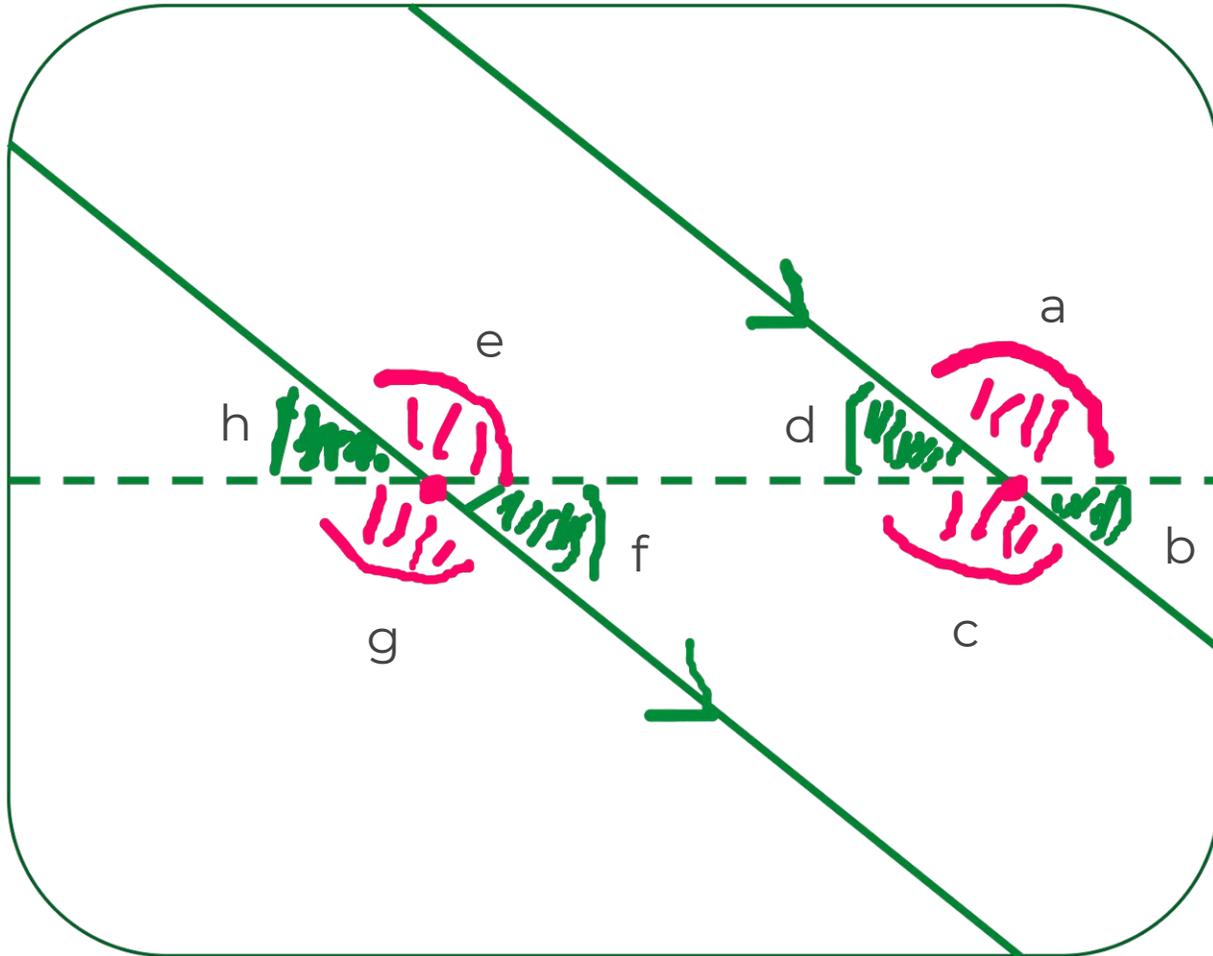
Corresponding angles

- same side of the transversal
- At different intersection points
- In different regions



Independent task

Fill in the gaps using the words **alternate** or **corresponding**.

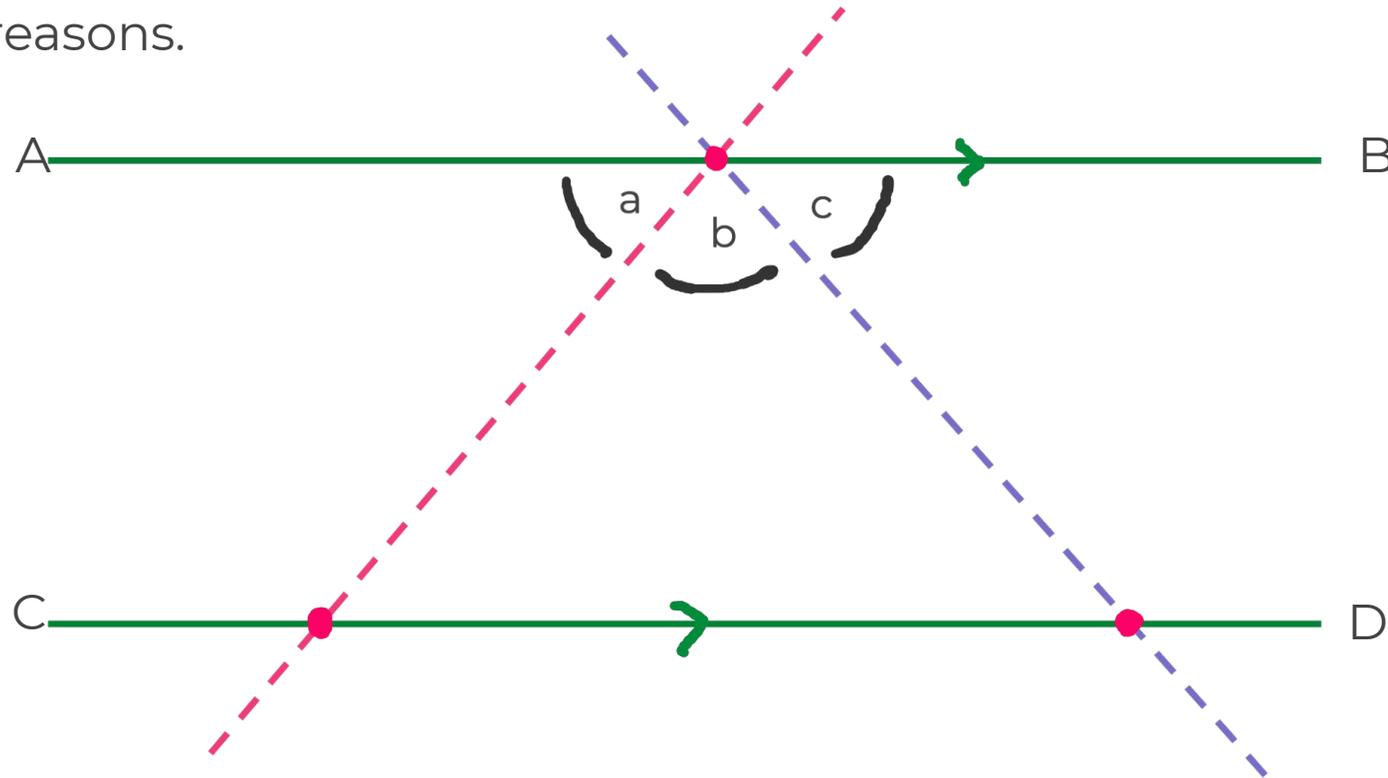


- 1) Angle b and angle h are _____ angles.
- 2) Angle d and angle f are _____ angles.
- 3) Angle h and angle d are _____ angles.
- 4) Angle g and angle c are _____ angles.
- 5) Angle c and and e are _____ angles.



Explore

Given that line segments AB and CD are parallel. Show that interior angles of the triangle sum to 180 degrees. Give reasons.



Hint: What do angles on a straight line sum to?

