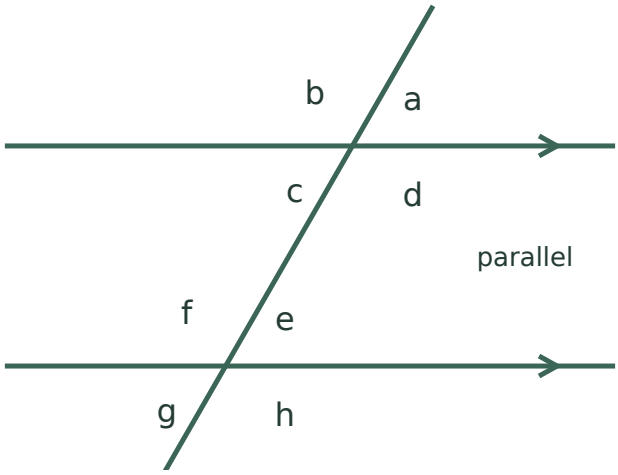
Practice worksheet | Angles and polygons

Parallel lines and transversals

Name: _____ Date: _____

6 questions | 14 marks

1. The horizontal lines in the diagram are parallel and $a = 73^\circ$. [3 marks]

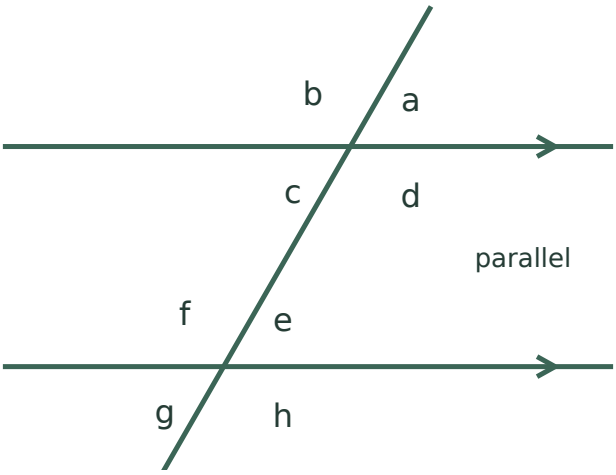


Letters name angle positions; sketch not to scale.

(a) Find e and name the angle rule. [1 mark]

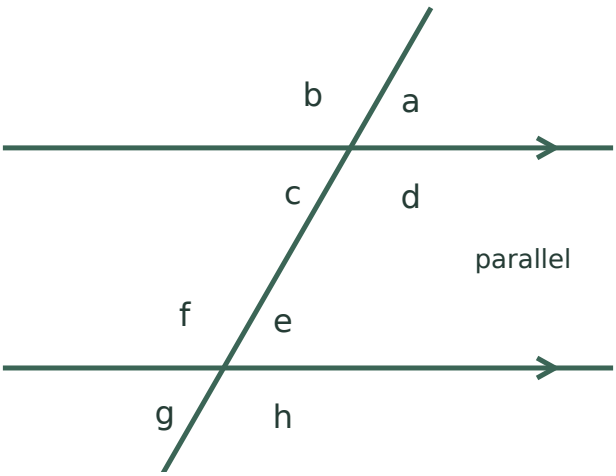
(b) Find h and give a reason. [2 marks]

2. The horizontal lines are parallel and $d = 113^\circ$. Find f and name the angle relationship. [2 marks]



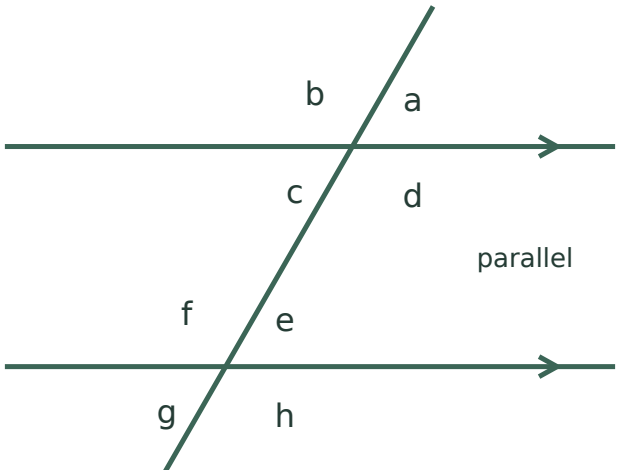
Letters name angle positions; sketch not to scale.

3. The horizontal lines are parallel and $c = 65^\circ$. Find f. [2 marks]



Letters name angle positions; sketch not to scale.

4. Corresponding angles b and f are $(2x+12)^\circ$ and $(4x-24)^\circ$. The lines are parallel. Find x and their common size. [3 marks]



Letters name angle positions; sketch not to scale.

5. Two lines cut by a transversal have co-interior angles of 108° and 72°. What can you conclude? Explain. [2 marks]

6. Two corresponding angles are exactly 88° and 89°. Are the lines parallel? Explain. [2 marks]