

Basic Angles and Shapes Practice #5

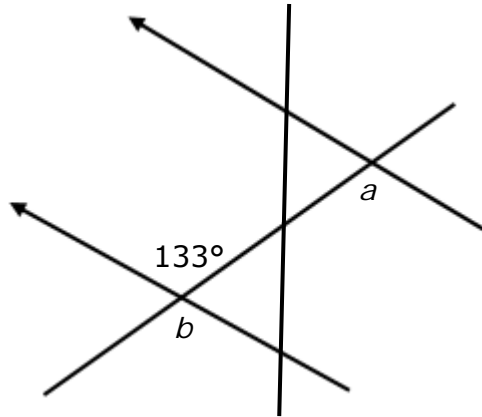
1.

Angle $a = \dots\dots\dots$

Reason = $\dots\dots\dots$

Angle $b = \dots\dots\dots$

Reason = $\dots\dots\dots$

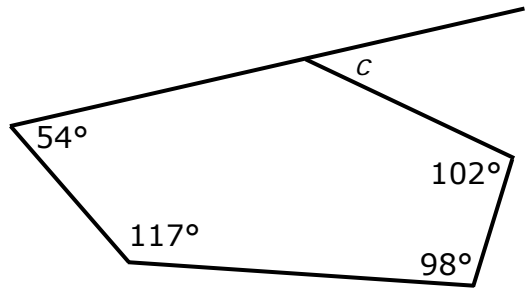


2.

Angle $c = \dots\dots\dots$

Reasons = $\dots\dots\dots$

$\dots\dots\dots$



3.

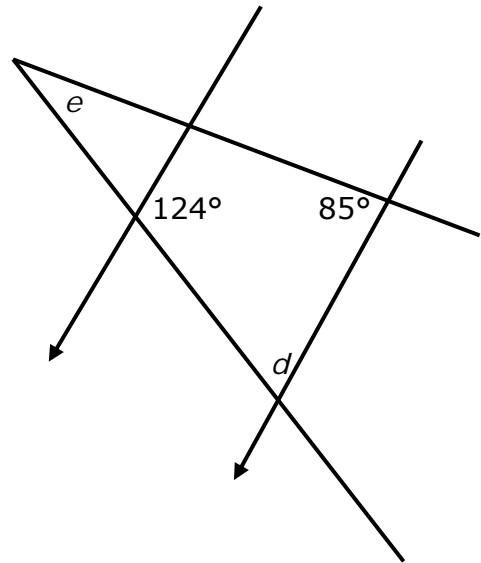
Angle $d = \dots\dots\dots$

Reason = $\dots\dots\dots$

Angle $e = \dots\dots\dots$

Reasons = $\dots\dots\dots$

$\dots\dots\dots$



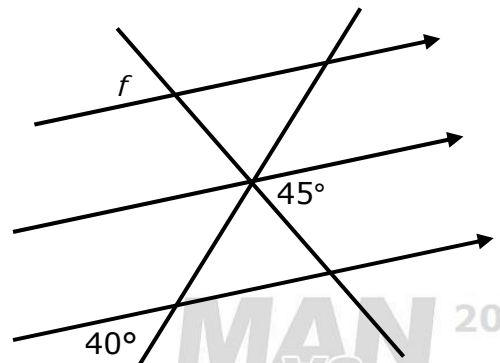
4.

Angle $f = \dots\dots\dots$

Reasons = $\dots\dots\dots$

$\dots\dots\dots$

$\dots\dots\dots$



Answers: Basic Angles and Shapes Practice #5

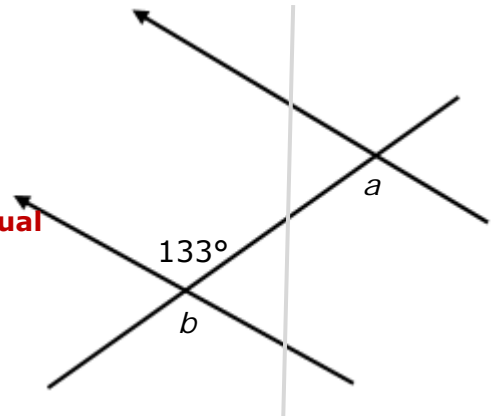
1.

Angle $a = 133^\circ$

Reason = **Alternate angles on parallel lines are equal**

Angle $b = 133^\circ$

Reason = **Vertically opposite angles are equal**

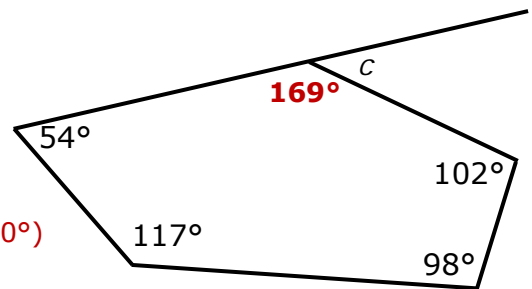


2.

Angle $b = 11^\circ$

Reasons = **Interior angles add up to 540° ($3 \times 180^\circ$)**

Angles on a line add up to 180°



3.

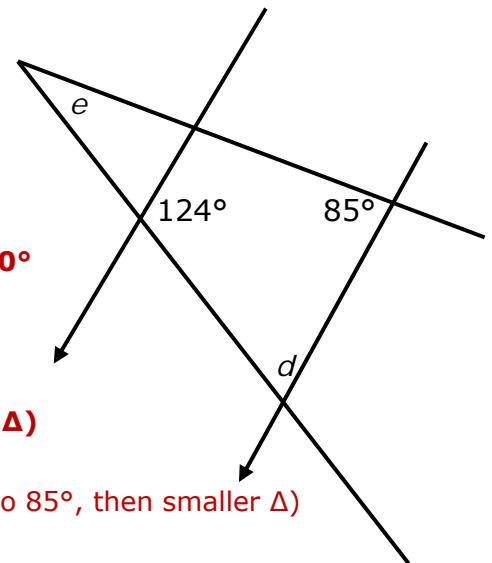
Angle $d = 56^\circ$

Reason = **co-interior (with 124°) on \parallel add up to 180°**

Angle $e = 39^\circ$

Reason = **Angles in Δ add to 180° (using the bigger Δ)**

(or angles on a line with 124° , corresponding to 85° , then smaller Δ)



4.

Angle $f = 45^\circ$

Reasons = **Corresponding angles on \parallel are equal**

Vertically opposite angles are equal

(or vert. opp. then corresponding etc)

