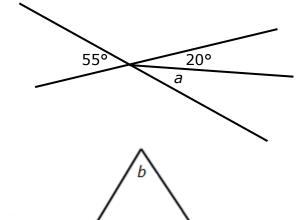
Basic Shapes and Angles Practice #4



Angle *a* =

Reason =

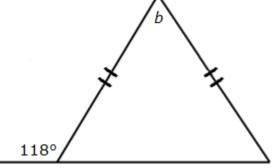


2.

Angle $b = \dots$

Reasons =

.....



3.

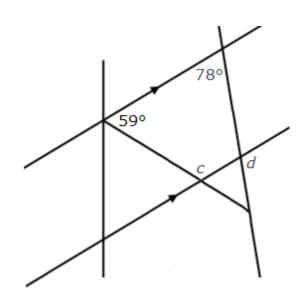
Angle *c* =

Reason =

Angle $d = \dots$

Reasons =

.....



4.

Angle *e* =

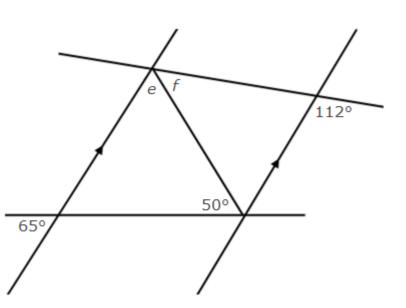
Reasons =

.....

Angle $f = \dots$

Reasons =

2017

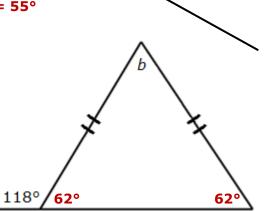


Answers: Basic Shapes and Angles Practice #4

1.

Angle $a = 35^{\circ}$

Reason = vertically opposite are equal: $a^{\circ} + 20^{\circ} = 55^{\circ}$



59°

50°

112°

55

20°

2.

Angle $b = 56^{\circ}$

Reasons = 62° as angles on a line = 180°

Base angles isosceles Δ are equal

Angles in $\Delta = 180^{\circ} : 62^{\circ} + 62^{\circ} + 56^{\circ} = 180^{\circ}$

3.

Angle $c = 121^{\circ}$

Reason = Co-interior on parallel lines add to 180°

Angle $d = 102^{\circ}$

Reasons = 78° as alternate on parallel lines are equal

Angles on line add to 180°

(or co-interior then vertically opposite, or corresponding and on line)



Angle *e* = **65°**

Reasons = Vertically opposite are equal (to 65°)

Angles in triangle add to 180°

Angle $f = 47^{\circ}$

Reasons = Corresponding on parallel lines are equal so $e + f = 112^{\circ}$

 $e = 65^{\circ}$, as above, so $f = 112^{\circ} - 65^{\circ}$

