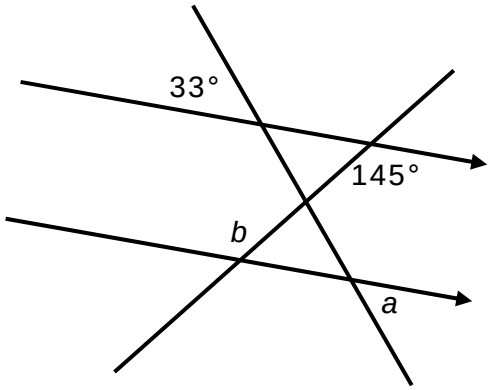
Basic Angles and Shapes Practice #3

1.



Angle *a* = ...

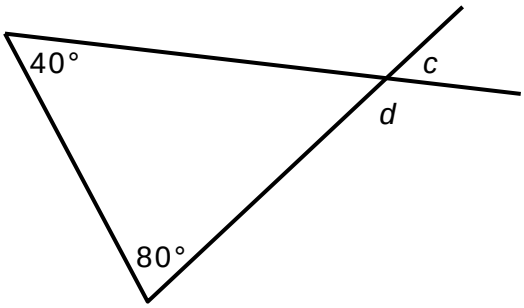
Reasons = ...

.....

Angle *b* = ...

Reason = ...

2.



Angle *c* = ...

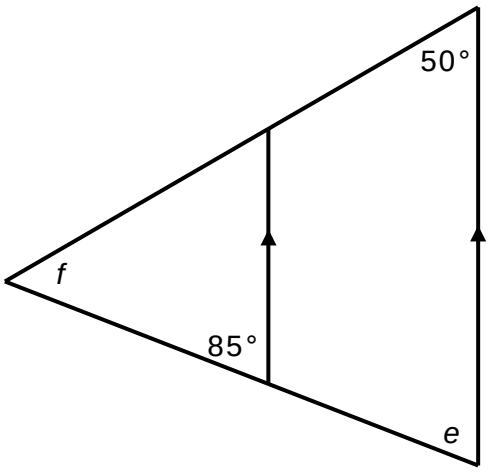
Reasons = ...

.....

Angle *d* = ...

Reason = ...

3.



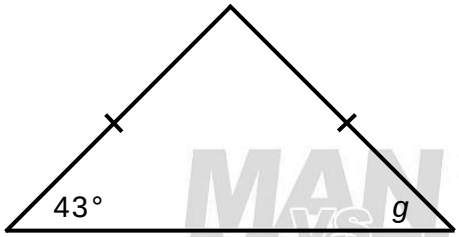
Angle *e* = ...

Reason = ...

Angle *f* = ...

Reason = ...

4.

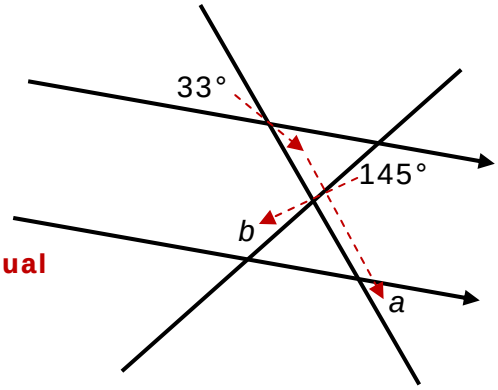


Angle *g* = ...

Reasons = ...

Answers: Basic Angles and Shapes Practice #3

1.



Angle *a* = **33°**

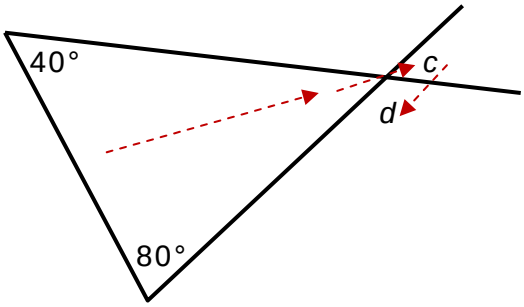
Reasons = **Vertically opposite angles are equal**

Corresponding on parallel lines are equal

Angle *b* = **145°**

Reason = **Alternating on parallel lines are equal**

2.



Angle *c* = **60°**

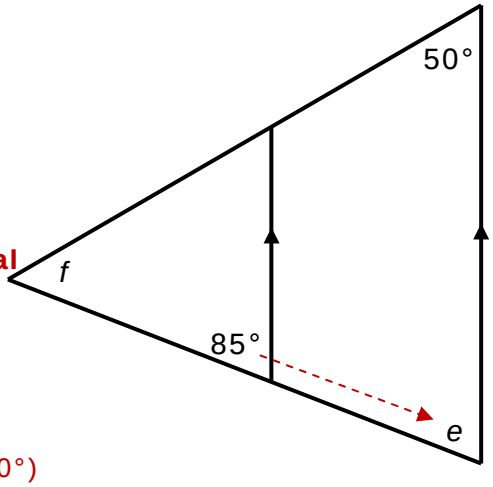
Reasons = **Angles in a triangle add to 180°**

Vertically opposite angles are equal

Angle *d* = **120°**

Reason = **Angles on a straight line add to 180°**

3.



Angle *e* = **85°**

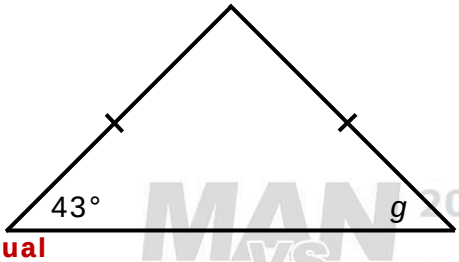
Reason = **Corresponding on parallel lines are equal**

Angle *f* = **45°**

Reason = **Angles in a triangle add to 180°**

(Triangles are <u>not</u> isosceles, angle *e* is <u>not</u> 50°)

4.



Angle *g* = **43°**

Reasons = **Base angles of an isosceles triangle are equal**