

Geom Triangle Lab

Name:

Block:

Seat

1. If you make an isosceles triangle ABC with the bases at A(-20, -10) and C(14,-10), where would B have to be so that the base angles measure 74?
2. Would C be closer or farther to AB if angle B increases?
 - (a) closer
 - (b) farther
3. What is the Coordinate of B if all the angles were equal (use the co-ords of question #1 where If you make an isosceles triangle ABC with the bases at A(-20, -10) and C(14,-10))?
4. What is the length of AB if all the angles were equal (use the co-ords of question #1 where If you make an isosceles triangle ABC with the bases at A(-20, -10) and C(14,-10))?
5. Do the medians of a triangle _____ intersect at a point?
 - (a) always
 - (b) sometimes
 - (c) never
6. What type of triangles have the medians meet at one point?
 - (a) Isosceles
 - (b) Equilateral
 - (c) Scalene
 - (d) Right
 - (e) Obtuse
 - (f) All the above
 - (g) None of the above
7. What type of triangles have the altitudes intersect at a point?
 - (a) Isosceles
 - (b) Equilateral
 - (c) Scalene
 - (d) Right
 - (e) Obtuse
 - (f) All the above
 - (g) None of the above

8. Find the co-ords of a triangle ABC such that it is a right triangle.
9. Find the co-ords of a triangle ABC such that it is isosceles triangle.
10. Try to find the co-ords of a triangle where a perpendicular bisector of one side intersects with the midpoint of another side.
11. If you found an answer to the last question, what sort of triangle is it?
- (a) Isosceles
 - (b) Equilateral
 - (c) Scalene
 - (d) Right
 - (e) None of the above
12. What kind of triangles have altitudes outside the triangle itself?
- (a) Acute
 - (b) Equilateral
 - (c) Scalene
 - (d) Right
 - (e) Obtuse
 - (f) All the above
 - (g) None of the above
13. Is it ever possible to have all the altitudes of a triangle outside the triangle itself?
- (a) Yes
 - (b) No
14. For what sort of triangle are the medians the same as the altitudes?
- (a) Isosceles
 - (b) Equilateral
 - (c) Scalene
 - (d) Right
 - (e) None of the above
15. For what sort of triangle do none of angular bisectors bisect the opposite side?
- (a) Acute
 - (b) Equilateral
 - (c) Scalene
 - (d) Right
 - (e) Obtuse
 - (f) All the above
 - (g) None of the above
16. A median _____ bisects the angle at the vertex from which it is drawn.
- (a) always
 - (b) sometimes
 - (c) never
17. For what sort of triangle does the length of a median is equal to half the length of the side it bisects?
- (a) Isosceles
 - (b) Equilateral
 - (c) Scalene
 - (d) Right
 - (e) None of the above