Geometry Practice: G.G.21
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NAME:_____

P.I. G.G.21: Investigate and apply the concurrence of medians, altitudes, angle bisectors, and perpendicular bisectors of triangles

1. Describe the location of the point of concurrency of the perpendicular bisectors of a triangle.

   [A] on the longest side of the triangle

   [B] in the same place as the point of concurrency of the altitudes of the triangle

   [C] always in the interior of the triangle

   [D] in the exterior, on, or in the interior of the triangle

   [E] none of the above

2. Compare the quantity in Column A with the quantity in Column B.
   ΔABC is an equilateral triangle. M is the point of concurrency of the medians and N is the point of concurrency of the angle bisectors.

Column A	Column B
MA	NA

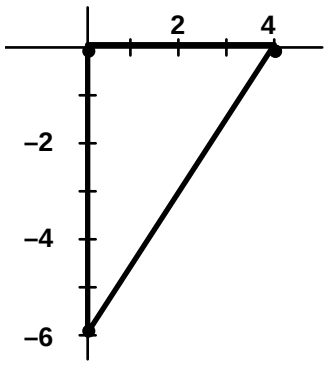
   [A] The quantity in Column A is greater.

   [B] The quantity in Column B is greater.

   [C] The two quantities are equal.

   [D] The relationship cannot be determined on the basis of the information supplied.

3. Give the point of concurrency of the altitudes and of the perpendicular bisectors of the sides.



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[1] D

[2] C

[3] altitudes: $(0, 0)$; perpendicular bisectors: $(2, -3)$