

NAME: _____

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

- 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

- Compare the quantity in Column A with the quantity in Column B.

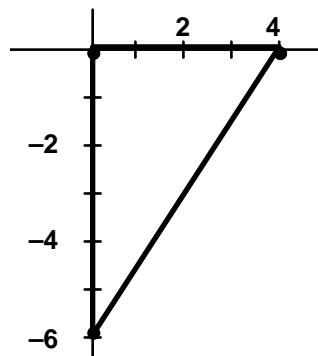
$\triangle ABC$ is an equilateral triangle. M is the point of concurrency of the medians and N is the point of concurrency of the angle bisectors.

<u>Column A</u>	<u>Column B</u>
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MA	NA
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- [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.

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



[1] D

[2] C

altitudes: $(0, 0)$; perpendicular bisectors:

[3] $(2, -3)$