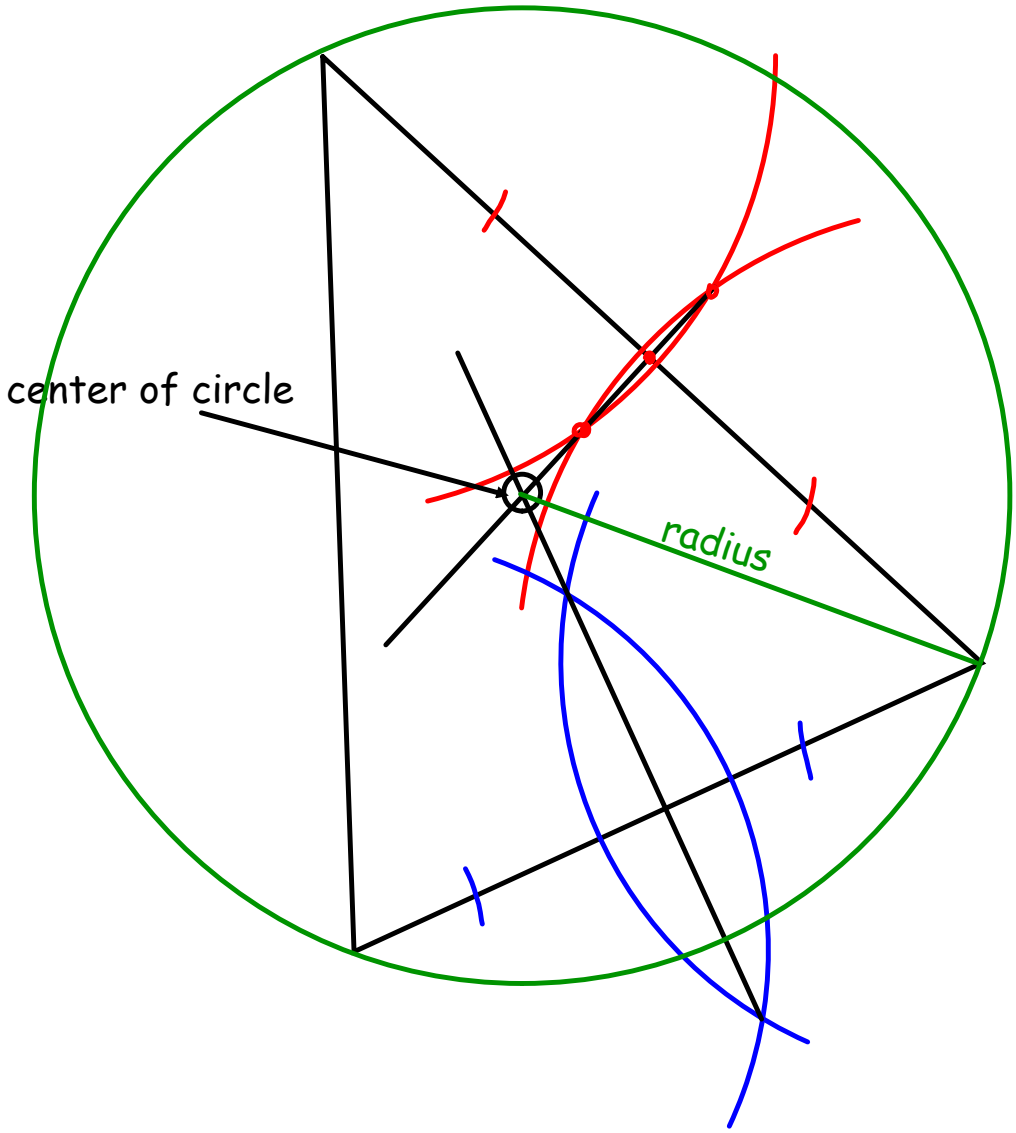
Construct a circumscribed circle

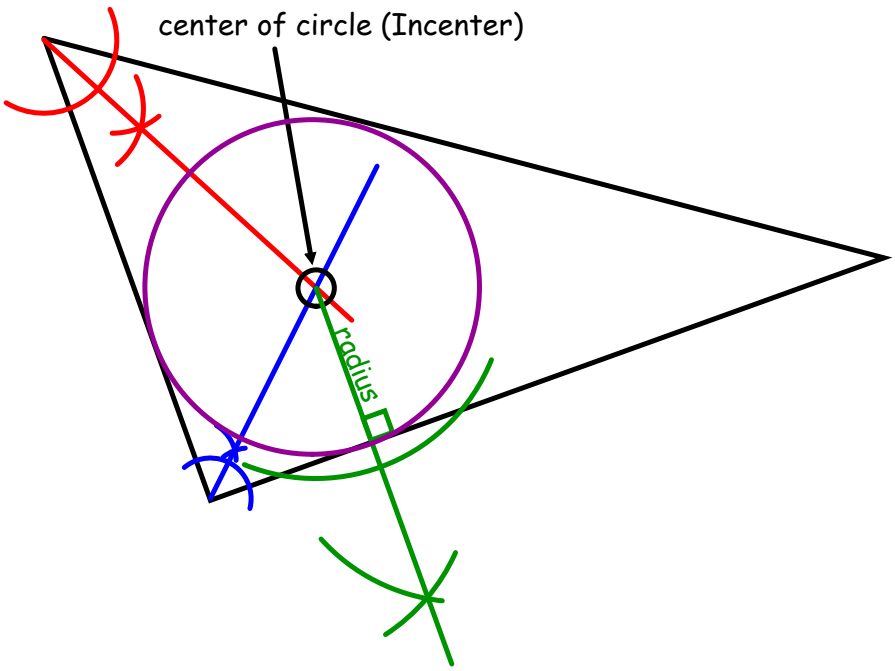
https://youtu.be/YEX2mhvbYuo



1. Create 2 segment bisectors (Note: Open compass to more than half of one side of the triangle.)
2. The intersection of the 2 segment bisectors is the center of the circle
3. Open the compass from the center of the circle to one vertex of the triangle (this is the radius of the circle)
4. Draw circle around the triangle

Construct an inscribed circle

https://youtu.be/S5tyyOZBs1Q



1. Construct 2 angle bisectors
2. Where the 2 angle bisectors meet is the Center of the circle (called the Incenter)
3. Creat a perpendicular bisector from the center of the circle to one of the sides of the triangle.
4. The length of the perpendicular bisector from the center to the edge of the triangle is the circles radius.
5. Measure the radius with your compass and create a circle.

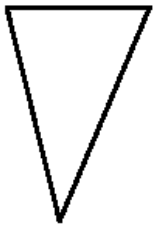
Geometry

14.4 Construct circumbscribed and inscribed circles and triangles

Name: _____ Date: _____ Hr: ___

Construct a circumscribed circle

1)



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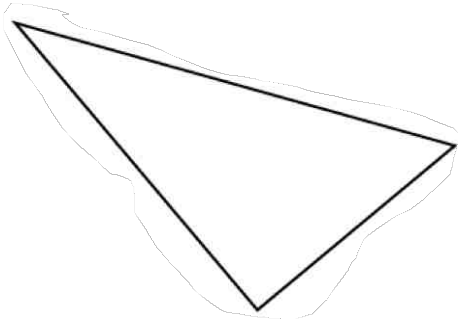

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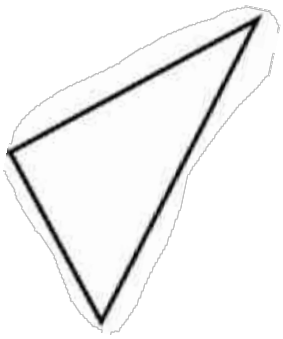

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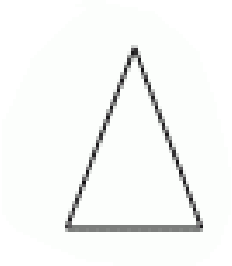
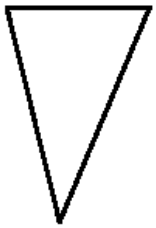


Construct an inscribed circle

5)



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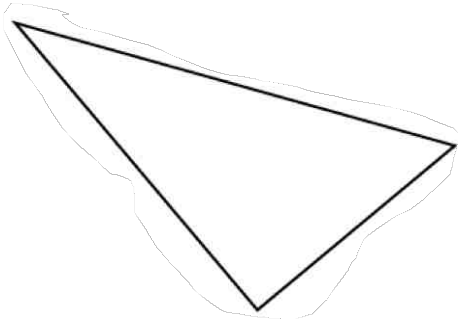
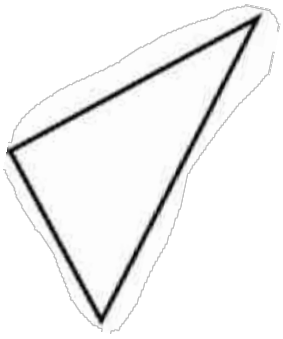


7)



8)