

## Homework #3-6 + #3-7 Due: Friday Nov. 18th

Date \_\_\_\_\_ Period \_\_\_\_\_

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1) Briefly describe how to construct an incenter.

2) Briefly describe how to construct a circumcenter.

3) Briefly describe how to construct an orthocenter.

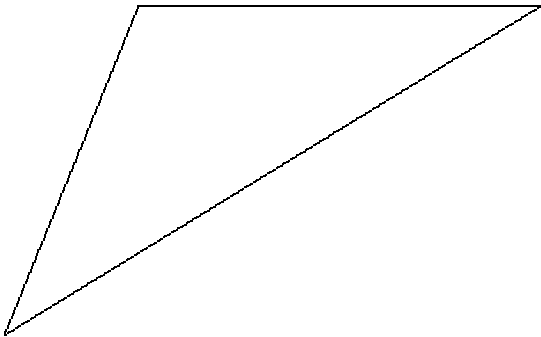
4) What is an incenter? (Hint: What is it the center of?) Is the incenter inside, outside, or both inside and outside a triangle?

5) What is a circumcenter? Is the circumcenter always inside the triangle, always outside the triangle or does it depend?

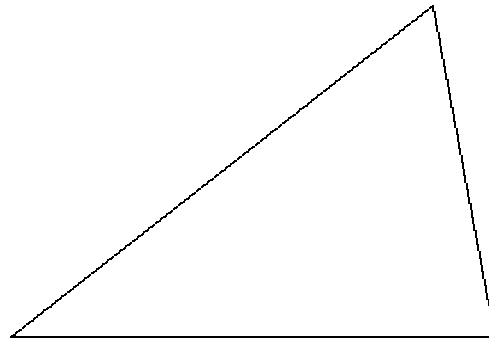
6) Is the orthocenter always inside the triangle, always outside the triangle or does it depend?

**Locate the incenter of each triangle.**

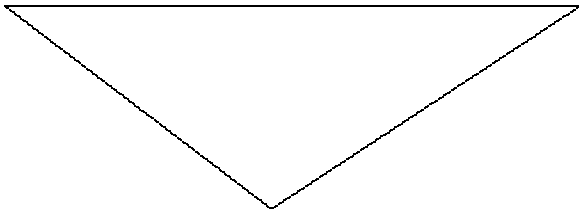
7)



8)

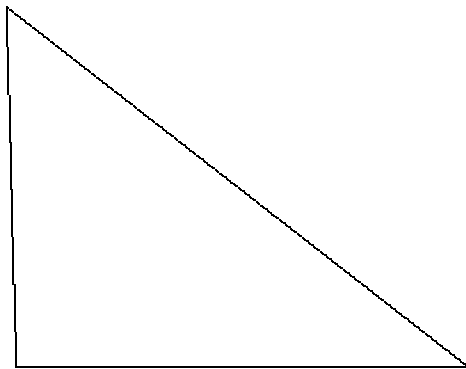


9)



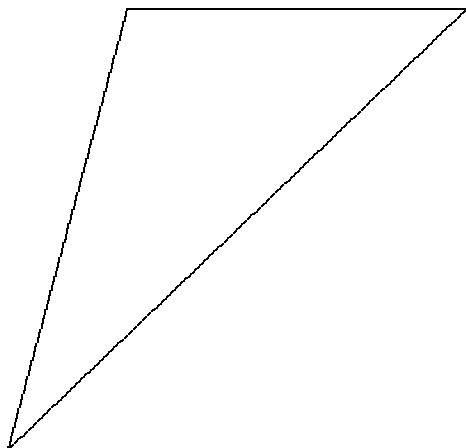
**Inscribe a circle in each triangle.**

10)

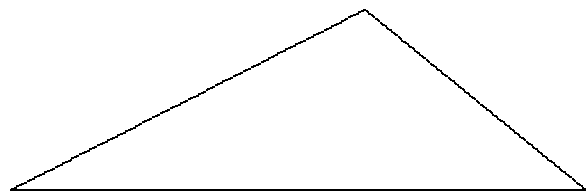


**Locate the circumcenter of each triangle.**

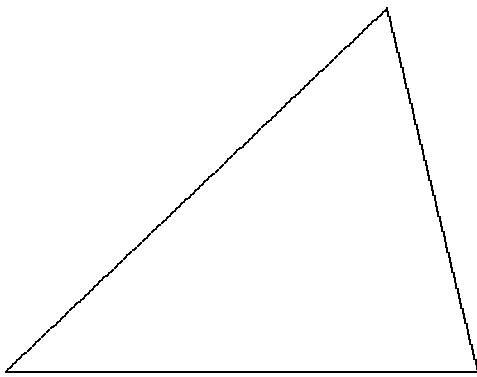
11)



12)

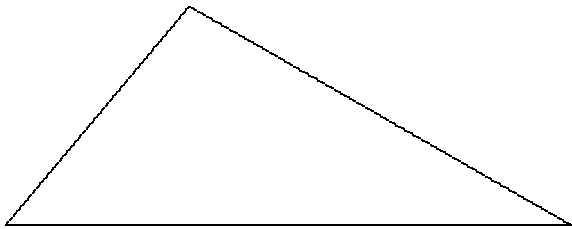


13)



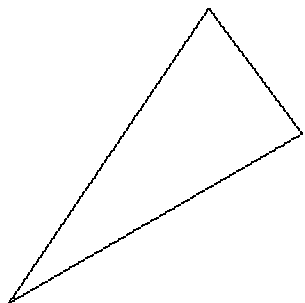
**Circumscribe a circle about each triangle.**

14)

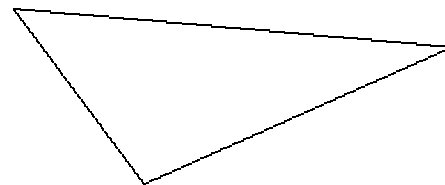


Locate the orthocenter of each triangle.

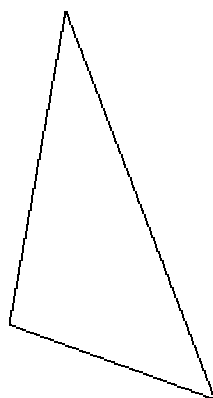
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16)

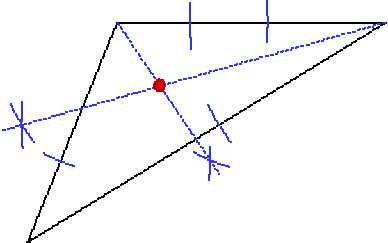


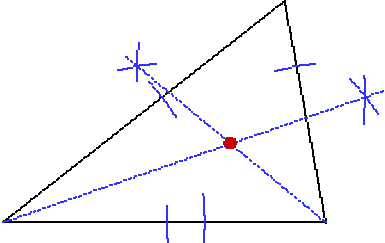
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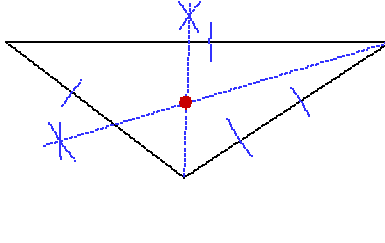


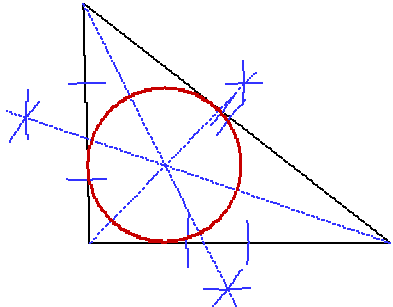
Answers to Homework #3-6 + #3-7 Due: Friday Nov. 18th (ID: 1)

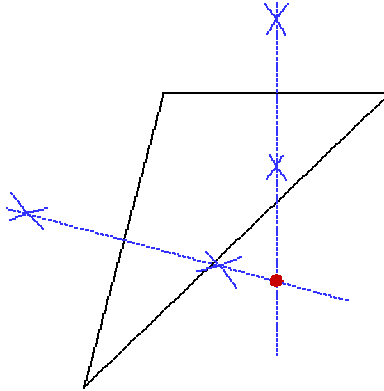
- 1) The dot next to the choice indicates that it is the answer.
- 2) The dot next to the choice indicates that it is the answer.
- 3) The dot next to the choice indicates that it is the answer.
- 4) The dot next to the choice indicates that it is the answer.
- 5) The dot next to the choice indicates that it is the answer.
- 6) The dot next to the choice indicates that it is the answer.

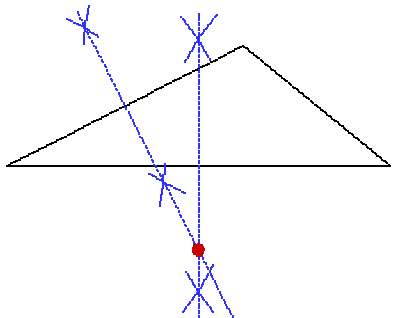
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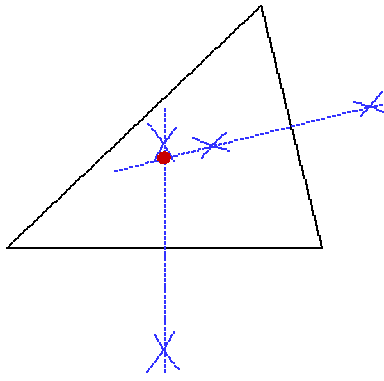
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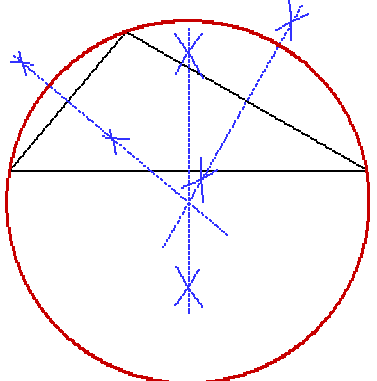
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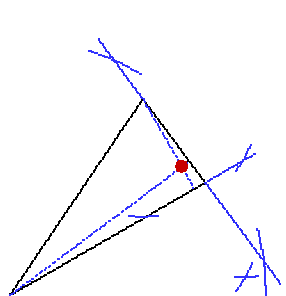
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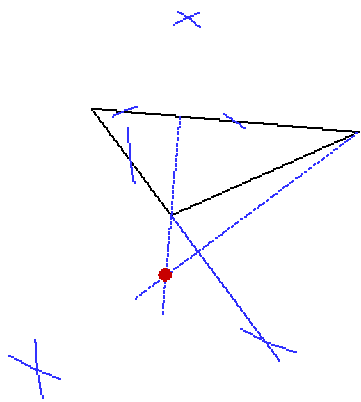
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17)

