

New Concepts

- Circumcenter
- Incenter
- Centroid

Problem Set #25

“Learning without thought is labor lost; thought without learning is perilous.”

- Confucius

New Postulates and Theorems

Exercises: (More like problems really)

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Problems:

25-1 Points of concurrency, part II

Use a compass and a straightedge(ruler) and one large sheet of paper to construct a $45^\circ - 60^\circ - 75^\circ$ triangle whose longest side has length 9 inches.

Use a compass and straightedge to locate the intersection the three angle bisectors (the incenter). Label this point A.

Use a compass and straightedge to locate the intersection the three perpendicular bisectors of each side (the circumcenter). Label this point B.

Use a compass and straightedge to locate the intersection the three medians (the centroid). Label this point C.

What do you notice about points A, B and C? Make a conjecture.