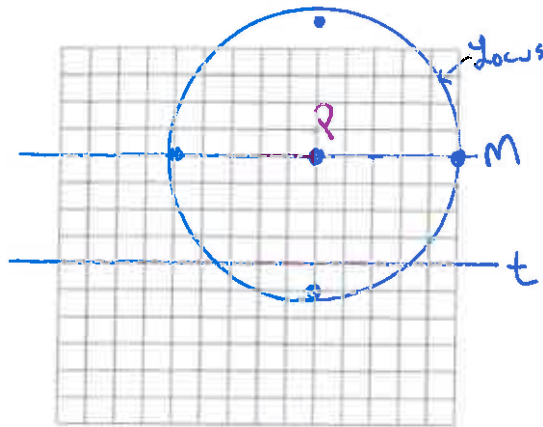


**Compound Locus** = more than 1 locus at a time.

Lines m and t are parallel and 4 units apart. Point P is on line m.

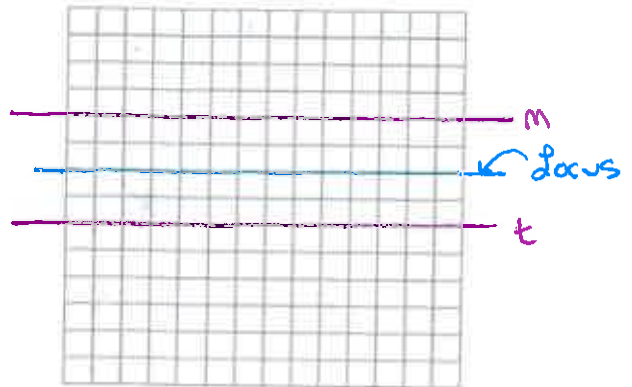


Describe the locus of points **5 units from point P.**



Locus is a circle centered at P with a radius of 5.

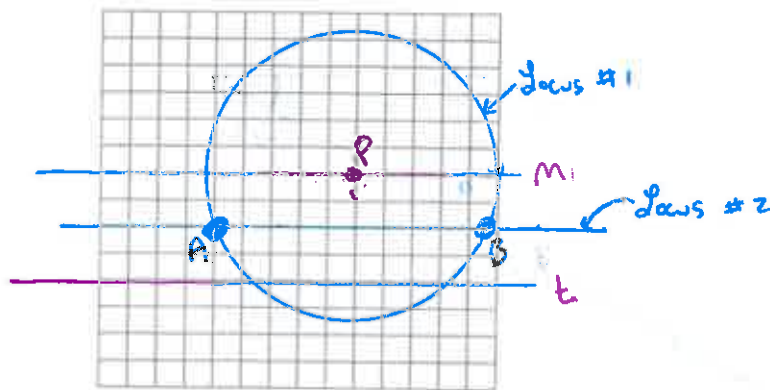
Describe the locus of points **equidistant to lines m & t.**



Locus is a line  $\frac{1}{2}$  way between lines m and t.



How many points are **equidistant to lines m & t** and also **5 units from point P?**



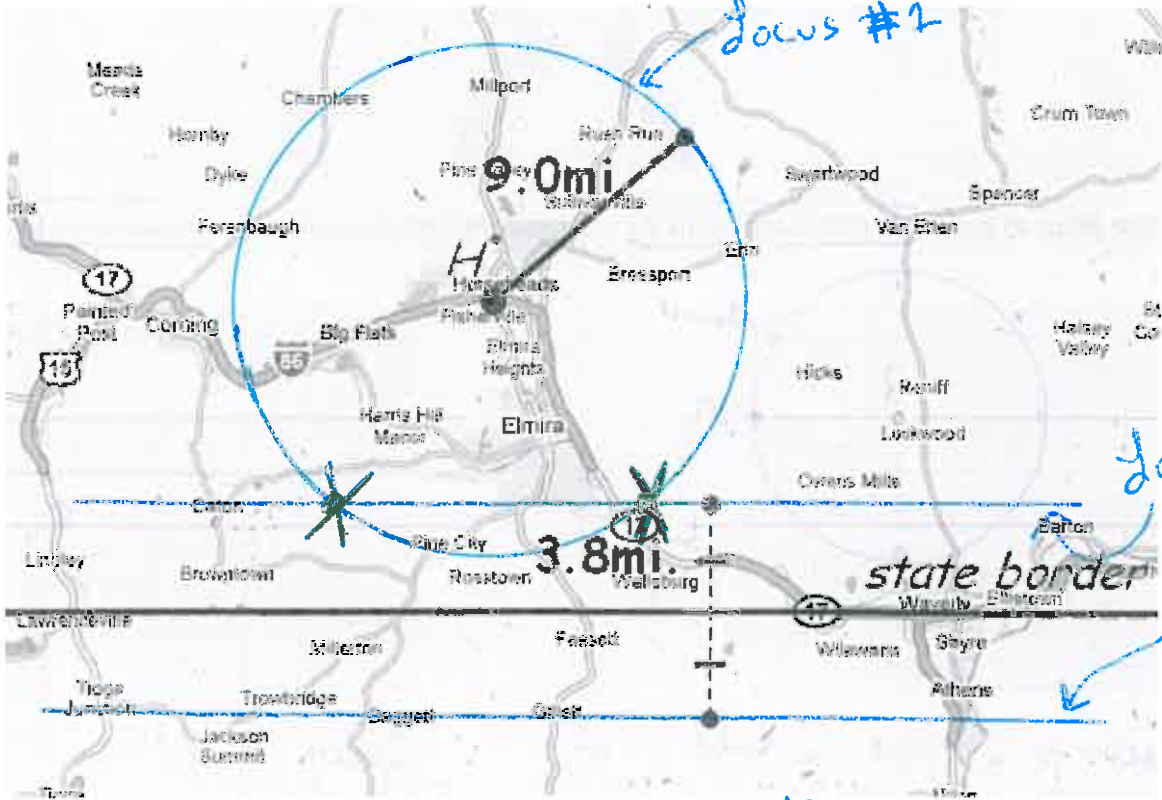
2 Locus.

the Locus intersect at 2 points (points A and B)

**Example 3:** A restaurant will be built 9 miles from Horseheads and also 3.8 miles from the state border. Sketch where the restaurant could be built, by placing an X in each possible location?

Locus #1 = Circle

Locus #2 = 11 lines.



**Example 4:** A sprinkler head will be installed 50 feet from the pine tree, but equidistant to the golf cart paths. Sketch where the sprinkler head could be installed by placing an X in each possible location.

Locus #1 = Circle

Locus #2 = Bisector

