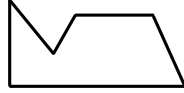


Irregular Figure:

* A figure that cannot be classified into specific shapes that we have studied.

* It is made up of different shapes.



Irregular Area is found by adding up the nonoverlapping regions. (Divide the figure into familiar shapes, find the area of each and add them up.)

Irregular Figure on the Coordinate Plane:

- * The regular polygon formula will not help us.
- * Divide the figure into familiar shapes and find the area of each.

1. Find the area of the figure in square feet.
Round to the nearest tenth if necessary.

$\Delta + \square + \circ = A$

$A = \frac{1}{2}(32)(15) = 240$

$A = 32(16) = 512$

$A = r^2 = 64\pi$

$240 + 512 + 64\pi = 953.1 \text{ ft}^2$

2. A rectangular rose garden is centered in a border of lawn. Find the area of the lawn around the garden in square feet.

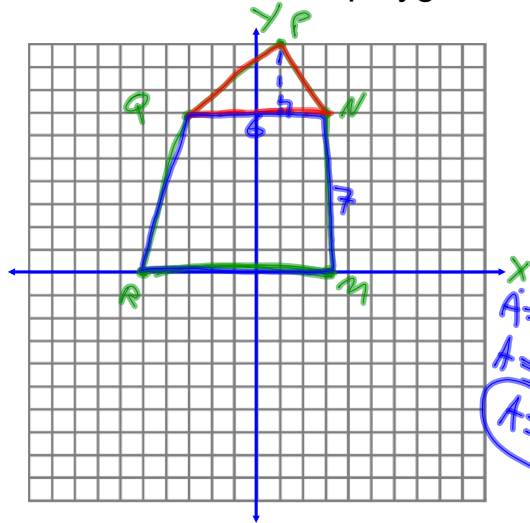
$25 + 20 + 25 = 70$

$A = 70(150) = 10500$

$A = 100(20) = 2000$

$A = 10,500 - 2000 = 8500 \text{ ft}^2$

3. Find the area of polygon MNPQR.



- P (1,10)
- N (3,7)
- M (3,0)
- R (-5,0)
- Q (-3,7)

$\Delta + \text{trapezoid}$

$$A = \frac{1}{2}(6)(3) + \frac{1}{2}(7)(6 \times 8)$$

$$A = 9 + 3.5(14)$$

$$A = 58$$