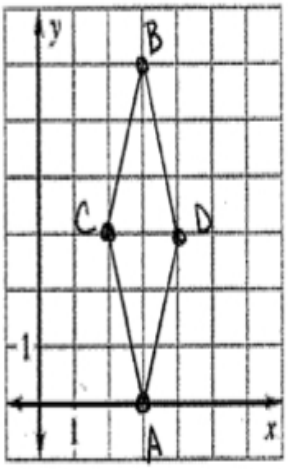
25. The vertices of a figure are given below. Plot and connect the points so that they form a convex polygon. Classify the figure. Then show that the figure is equilateral using algebra.

$A(3,0), B(3,6), C(2,3), D(4,3)$



$*BC = \sqrt{(3-2)^2+(6-3)^2}$
$= \sqrt{(1)^2+(3)^2}$
$= \sqrt{1+9}$
$= \sqrt{10}$

$*CA = \sqrt{(2-3)^2+(3-0)^2}$
$= \sqrt{(-1)^2+(3)^2}$
$= \sqrt{1+9}$
$= \sqrt{10}$

$*AD = \sqrt{(3-4)^2+(0-3)^2}$
$= \sqrt{(-1)^2+(-3)^2}$
$= \sqrt{1+9}$
$= \sqrt{10}$

$*DB = \sqrt{(4-3)^2+(3-6)^2}$
$= \sqrt{(1)^2+(-3)^2}$
$= \sqrt{1+9}$
$= \sqrt{10}$

Quadrilateral