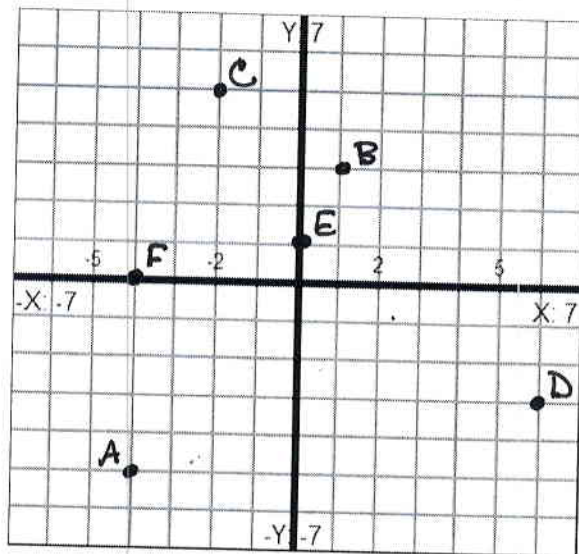Name _____ KEY _____

Instructions: Show all work. Answers without work will not receive full credit. Give exact answers unless specifically asked to round.

1. For each of the points $\{A(-4,-5), B(1,3), C(-2,5), D(6,-3), E(0,1), F(-4,0)\}$, plot the points and label each on the graph below.

2. For each point plotted on the graph below, give the coordinates of the point, and state which quadrant each point is in. If it is not in a quadrant, state the axis it lies on.

A QI (2,5)
B Y-axis (0,3)
C QII (-5,3)
D X-axis (-1,0)
E QIII (-4,-6)
F QIV (4,-3)
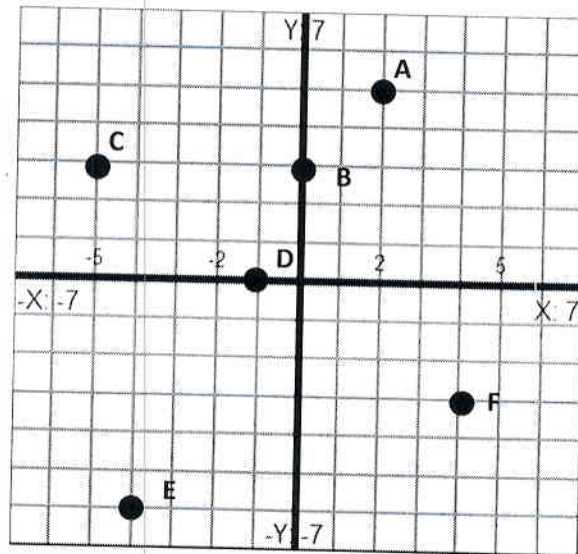
3. Determine whether the listed points satisfy the equation $\frac{4}{3}x + y - 1 = 0$.

   a. $A(3,-3)$

   b. $B(-6,-9)$

   c. $C\left(\frac{3}{4}, 0\right)$

   a. $\frac{4}{3}(3) - 3 - 1 =$
   $4 - 4 = 0$
   yes

   b. $\frac{4}{3}(\overset{-2}{-6}) - 9 - 1$
   $-8 - 9 - 1 \neq 0$
   NO

   c. $\frac{4}{3} \cdot \frac{3}{4} + 0 - 1 =$
   $1 - 1 = 0$
   YES