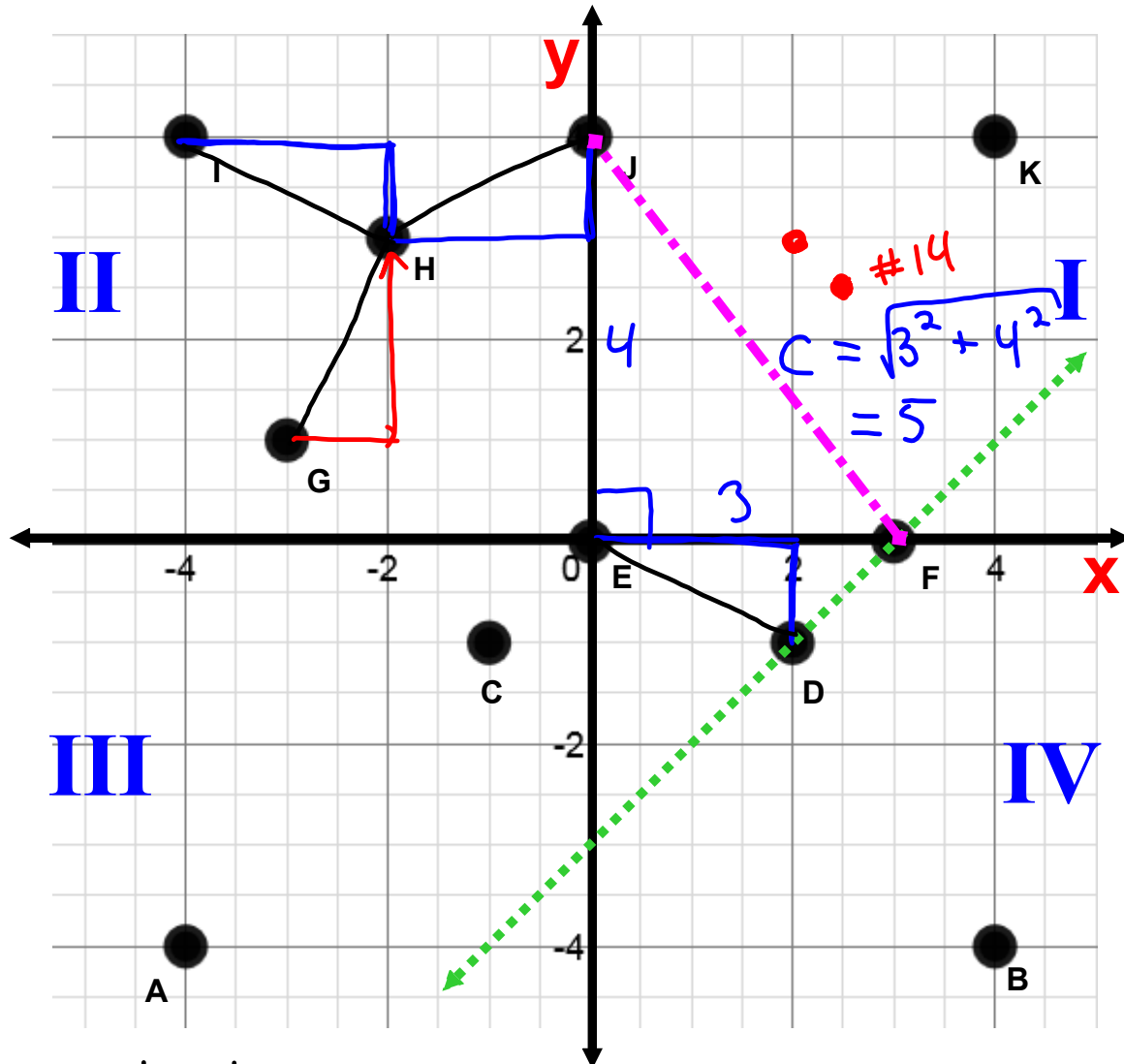


Review of Plotting Points and Graphs

- Used to visualize mathematical relationships.
- 2 axes divide grid into four quadrants: I, II, III, IV
- Coordinates are written as (x,y) and called an order pair or points.
- (0,0) is called the origin.



Letter	x	y
A	-4	-4
B	4	-4
C	-1	-1
D	2	-1
E	0	0
F	3	0
G	-3	+1
H	-2	3
I	-4	4
J	0	4
K	4	4

1. What quadrant contains point A? III
2. List all the points in quadrant II G, H, I
3. What points have an y-value of -1? C, D
4. What points have an x-value of 0? E, J
5. Place a dot at (2,3) and (-3,-2).
6. What points form the corners of a perfect square? A, B, I, K
7. Is point C on the same line from A to E? Yes/No What other point is on the same line? (-2,-2)
8. Is point C on the same line from G to B? Yes/No
9. Going from G to H: 1 right and 2 up.
10. Going from H to J: 2 right and 1 up.
11. Going from E to D: 2 right and 1 down.
12. Going from I to C: 3 right and 5 down.
13. Place a dot 3 to the right and 1 up from point A.
14. Place a dot 2.5 to the right and 1.5 down from point J.
15. Write an ordered pair that is on the same line as D to F and in quadrant I (4, 1), quadrant IV (1, -2) and quadrant III (-1, -4)
16. What is the distance between A and B? 8
17. What is the distance between E and J? 4
18. The distance between C and E is the same as the distance between C and D.
19. The distance between G and H is the same as the distance between H and J; D, E
20. What is the distance between J and F? (hint: Look at the triangle that includes E).

$$c^2 = a^2 + b^2$$

$$c^2 = (3)^2 + (4)^2$$

$$c^2 = 9 + 16$$

$$c^2 = 25$$

$$c = \sqrt{25} = \boxed{5}$$