

Vector Drawing Activity

Draw a quadrant axis at the center on a piece of graph paper (have it orientated so the longer side is vertical). Illustrate the coordinate vectors below on the graph paper to make a picture.

1. $\langle 7, -7 \rangle$ with the tail at $(1, 7)$
2. Vector with magnitude 10 units and direction angle 180 degrees, tail at $(-5, -8)$
3. $\langle -6, 6 \rangle$ with the tail at $(-5, 13)$
4. $-6i + 5j$ positioned so the tail is at $(3, 13)$
5. Vector with magnitude 5 units, direction angle 0 degrees, tail at $(-14, 0)$
6. $6i - 8j$ with the head at $(9, -8)$
7. Vector with magnitude 3, direction angle 90 degrees, tail at $(-5, -11)$
8. Vector with magnitude 5.4 centimeters, direction angle 315, tail at $(-1, 13)$
9. $4i$ with tail at $(-9, 13)$
10. Vector that results from $\langle -3, -2 \rangle + \langle -4, -5 \rangle$ with tail at $(-7, 7)$
11. Vector that results from $\langle 10, -3 \rangle - \langle 16, 5 \rangle$ with tail at $(-9, 0)$
12. $10i$ with tail at $(-1, -8)$
13. Vector with magnitude 3 units and direction angle is 90 degrees tail at $(-1, -11)$
14. $6i + 5j$ with tail at $(-9, 13)$
15. Vector with magnitude of 4 units, angle of inclination 180 degrees, tail at $(5, 7)$
16. Vector that is one longer than #15, same angle on inclination, tail at $(8, 0)$
17. Vector that results from $2\langle 2, 0 \rangle$ with the tail at $(-11, 7)$
18. Opposite of the vector you needed for #9, with the tail at $(3, 13)$
19. Equal vector to #9, with the tail at $(-5, -11)$

Color the picture for a bonus!