

SM3H 9.5 odd answers

1. vector

3. direction

5. $A + B = \langle 5, 4 \rangle$, $A - B = \langle -3, 2 \rangle$

7. $|\vec{v}_x| = 1.9$

$|\vec{v}_y| = 4.1$

9. $2, \theta = 30^\circ$

11. $5, \theta = 0^\circ$

13. $\langle 4\sqrt{2}, 4\sqrt{2} \rangle$

15. $\langle 17.5, -4 \rangle$

17. $\langle 18, -22 \rangle$

19. -34

21. $\alpha \approx 32.5^\circ$

23. perpendicular

25. neither

27. $-7i - j$

29. $\sqrt{29}, \theta \approx 158.2^\circ$

31. $3x + 10$

33. $x = -3$, rational

$x = 1 \pm \sqrt{3}$, irrational