1. Compute the product of the scalar $-\sqrt{3}$ and vector $\left(\frac{4}{5}, 3, -1\right)$.

- $\left(-\frac{4\sqrt{3}}{5}, -3\sqrt{3}, \sqrt{3}\right)$
- $\left(-\frac{4\sqrt{3}}{5}, 3+\sqrt{3}, \sqrt{3}\right)$
- $\left(-\frac{4}{5}-\sqrt{3}, -3-\sqrt{3}, 1-\sqrt{3}\right)$
- $\left(\frac{4}{5}-\sqrt{3}, 3-\sqrt{3}, -1-\sqrt{3}\right)$

2. Compute the product: $\sqrt{11}\left(-7, -\frac{1}{2}, -\frac{3}{4}\right)$.

- $\left(\sqrt{11}-7, \sqrt{11}-\frac{1}{2}, \sqrt{11}-\frac{3}{4}\right)$
- $\left(7+\sqrt{11}, \frac{1}{2}+\sqrt{11}, \frac{3}{4}+\sqrt{11}\right)$
- $\left(-7\sqrt{11}, -\frac{\sqrt{11}}{2}, -\frac{3\sqrt{11}}{4}\right)$
- $\left(-7\sqrt{11}, -\frac{1}{2\sqrt{11}}, -\frac{3\sqrt{11}}{4}\right)$

3. Multiply the vector $\left(-6, -\frac{7}{8}, -\frac{2}{7}\right)$ by the scalar $\sqrt{5}$.

- $\left(6+\sqrt{5}, \frac{7}{8}+\sqrt{5}, \frac{2}{7}+\sqrt{5}\right)$
- $\left(\sqrt{5}-6, \sqrt{5}-\frac{7}{8}, \sqrt{5}-\frac{2}{7}\right)$
- $\left(-6\sqrt{5}, -\frac{7}{8}-\sqrt{5}, -\frac{2\sqrt{5}}{7}\right)$
- $\left(-6\sqrt{5}, -\frac{7\sqrt{5}}{8}, -\frac{2\sqrt{5}}{7}\right)$

4. Compute the product: $-\sqrt{3}\,(6, 6, 7)$.

- $\left(-6-\sqrt{3}, -6-\sqrt{3}, -7-\sqrt{3}\right)$
- $\left(6-\sqrt{3}, 6-\sqrt{3}, 7-\sqrt{3}\right)$
- $\left(-6\sqrt{3}, -6\sqrt{3}, 7\right)$
- $\left(-6\sqrt{3}, -6\sqrt{3}, -7\sqrt{3}\right)$

5. Calculate the product: $\sqrt{3}\,\left(-4, -4, \frac{9}{8}\right)$.

- $\left(-4\sqrt{3}, -\frac{4}{\sqrt{3}}, \frac{9\sqrt{3}}{8}\right)$
- $\left(4+\sqrt{3}, 4+\sqrt{3}, \sqrt{3}-\frac{9}{8}\right)$
- $\left(-4\sqrt{3}, -4\sqrt{3}, \frac{9\sqrt{3}}{8}\right)$
- $\left(\sqrt{3}-4, \sqrt{3}-4, \frac{9}{8}+\sqrt{3}\right)$

6. Calculate the product: $\sqrt{5}\,\left(\frac{6}{5}, -5, 3\right)$.

- $\left(\sqrt{5}-\frac{6}{5}, 5+\sqrt{5}, \sqrt{5}-3\right)$
- $\left(\frac{6}{5}, -5\sqrt{5}, 3\sqrt{5}\right)$
- $\left(\frac{6}{5}+\sqrt{5}, \sqrt{5}-5, 3+\sqrt{5}\right)$
- $\left(\frac{6}{\sqrt{5}}, -5\sqrt{5}, 3\sqrt{5}\right)$

7. Calculate the product:
$-\sqrt{7}\left(\frac{3}{2}, -\frac{3}{7}, 6\right)$.

- $\left(\frac{3}{2}-\sqrt{7}, -\frac{3}{7}-\sqrt{7}, 6-\sqrt{7}\right)$
- $\left(-\frac{3\sqrt{7}}{2}, \frac{3}{\sqrt{7}}, -6\sqrt{7}\right)$
- $\left(-\frac{3}{2}-\sqrt{7}, \frac{3}{7}-\sqrt{7}, -6-\sqrt{7}\right)$
- $\left(-\frac{3\sqrt{7}}{2}, \frac{3}{7\sqrt{7}}, -6\sqrt{7}\right)$

8. Multiply the vector $(-5, -1, -2)$ by the
scalar $\sqrt{3}$.

- $\left(5+\sqrt{3}, 1+\sqrt{3}, 2+\sqrt{3}\right)$
- $\left(-5\sqrt{3}, -\sqrt{3}, -2\sqrt{3}\right)$
- $\left(\sqrt{3}-5, \sqrt{3}-1, \sqrt{3}-2\right)$
- $\left(-5\sqrt{3}, -\frac{1}{\sqrt{3}}, -2\sqrt{3}\right)$

9. Multiply the vector $(1, -2, 1)$ by the
scalar $\sqrt{3}$.

- $\left(\sqrt{3}, -2\sqrt{3}, \sqrt{3}\right)$
- $\left(\sqrt{3}-1, 2+\sqrt{3}, \sqrt{3}-1\right)$
- $\left(\sqrt{3}, -2-\sqrt{3}, \sqrt{3}\right)$
- $\left(1+\sqrt{3}, \sqrt{3}-2, 1+\sqrt{3}\right)$

10. Calculate the product:
$-\sqrt{5}(3, 5, 2)$.

- $\left(-3\sqrt{5}, -5\sqrt{5}, -2\sqrt{5}\right)$
- $\left(-3\sqrt{5}, -\sqrt{5}, -2\sqrt{5}\right)$
- $\left(3-\sqrt{5}, 5-\sqrt{5}, 2-\sqrt{5}\right)$
- $\left(-3-\sqrt{5}, -5-\sqrt{5}, -2-\sqrt{5}\right)$

11. Multiply the vector $\left(-1, \frac{9}{4}, -1\right)$ by the scalar $-\sqrt{5}$.

- ○ $\left(1-\sqrt{5}, -\frac{9}{4}-\sqrt{5}, 1-\sqrt{5}\right)$
- ○ $\left(-1, -\frac{9\sqrt{5}}{4}, \sqrt{5}\right)$
- ○ $\left(-1-\sqrt{5}, \frac{9}{4}-\sqrt{5}, -1-\sqrt{5}\right)$
- ○ $\left(\sqrt{5}, -\frac{9\sqrt{5}}{4}, \sqrt{5}\right)$

12. Compute the product of the scalar $-\sqrt{11}$ and vector $(1, -3, -2)$.

- ○ $\left(-\sqrt{11}, 3\sqrt{11}, 2\sqrt{11}\right)$
- ○ $\left(-\sqrt{11}, \frac{3}{\sqrt{11}}, 2\sqrt{11}\right)$
- ○ $\left(1-\sqrt{11}, -3-\sqrt{11}, -2-\sqrt{11}\right)$
- ○ $\left(-1-\sqrt{11}, 3-\sqrt{11}, 2-\sqrt{11}\right)$

13. Compute the product of the scalar $\sqrt{11}$ and vector $\left(-\frac{3}{2}, -\frac{5}{9}, 7\right)$.

- $\left(\frac{3}{2}+\sqrt{11}\,,\ \frac{5}{9}+\sqrt{11}\,,\ \sqrt{11}-7\right)$
- $\left(\sqrt{11}-\frac{3}{2},\ \sqrt{11}-\frac{5}{9},\ 7+\sqrt{11}\right)$
- $\left(-\frac{3\sqrt{11}}{2},\ -\frac{5}{9\sqrt{11}},\ 7\sqrt{11}\right)$
- $\left(-\frac{3\sqrt{11}}{2},\ -\frac{5\sqrt{11}}{9},\ 7\sqrt{11}\right)$

14. Compute the product of the scalar $\sqrt{5}$ and vector $(-3, 3, -2)$.

- $\left(3+\sqrt{5}\,,\ \sqrt{5}-3,\ 2+\sqrt{5}\,\right)$
- $\left(\sqrt{5}-3,\ 3+\sqrt{5}\,,\ \sqrt{5}-2\right)$
- $\left(-3\sqrt{5}\,,\ \frac{3}{\sqrt{5}},\ -2\sqrt{5}\,\right)$
- $\left(-3\sqrt{5}\,,\ 3\sqrt{5}\,,\ -2\sqrt{5}\,\right)$

15. Compute the product: $-\sqrt{7}\,(3, 1, 2)$.

- $\left(3-\sqrt{7}, 1-\sqrt{7}, 2-\sqrt{7}\right)$
- $\left(-3-\sqrt{7}, -1-\sqrt{7}, -2-\sqrt{7}\right)$
- $\left(-3\sqrt{7}, -\sqrt{7}, -2\sqrt{7}\right)$
- $\left(-3\sqrt{7}, -\sqrt{7}, 2\right)$

16. Multiply the vector $(5, -6, -4)$ by the scalar $-\sqrt{7}$.

- $\left(5, 6\sqrt{7}, 4\sqrt{7}\right)$
- $\left(5-\sqrt{7}, -6-\sqrt{7}, -4-\sqrt{7}\right)$
- $\left(-5\sqrt{7}, 6\sqrt{7}, 4\sqrt{7}\right)$
- $\left(-5-\sqrt{7}, 6-\sqrt{7}, 4-\sqrt{7}\right)$

17. Compute the product: $\sqrt{5}\,\left(-3, \frac{9}{5}, 1\right)$.

- $\left(\sqrt{5}-3, \frac{9}{5}+\sqrt{5}, 1+\sqrt{5}\right)$
- $\left(-3, \frac{9}{\sqrt{5}}, \sqrt{5}\right)$
- $\left(-3\sqrt{5}, \frac{9}{\sqrt{5}}, \sqrt{5}\right)$
- $\left(3+\sqrt{5}, \sqrt{5}-\frac{9}{5}, \sqrt{5}-1\right)$

18. Compute the product of the scalar $\sqrt{3}$ and vector $\left(-1, -7, \frac{2}{3}\right)$.

- $\left(-\sqrt{3}, -7\sqrt{3}, \frac{2}{3}\right)$
- $\left(1+\sqrt{3}, 7+\sqrt{3}, \sqrt{3}-\frac{2}{3}\right)$
- $\left(-\sqrt{3}, -7\sqrt{3}, \frac{2}{\sqrt{3}}\right)$
- $\left(\sqrt{3}-1, \sqrt{3}-7, \frac{2}{3}+\sqrt{3}\right)$

19. Multiply the vector $(4, 5, 2)$ by the scalar $\sqrt{3}$.

- $\left(4+\sqrt{3}, 5+\sqrt{3}, 2+\sqrt{3}\right)$
- $\left(4\sqrt{3}, 5\sqrt{3}, 2\sqrt{3}\right)$
- $\left(4\sqrt{3}, 5\sqrt{3}, 2\right)$
- $\left(\sqrt{3}-4, \sqrt{3}-5, \sqrt{3}-2\right)$

20. Compute the product of the scalar $-\sqrt{5}$ and vector $\left(\frac{5}{7}, -5, -\frac{4}{3}\right)$.

- $\left(-\frac{5}{7}-\sqrt{5}, 5-\sqrt{5}, \frac{4}{3}-\sqrt{5}\right)$
- $\left(-\frac{5\sqrt{5}}{7}, \sqrt{5}, \frac{4\sqrt{5}}{3}\right)$
- $\left(\frac{5}{7}-\sqrt{5}, -5-\sqrt{5}, -\frac{4}{3}-\sqrt{5}\right)$
- $\left(-\frac{5\sqrt{5}}{7}, 5\sqrt{5}, \frac{4\sqrt{5}}{3}\right)$