1. Multiply the vector (-5, -1) by the scalar  $\sqrt{11}$ .

$$\bigcirc \left(-5\sqrt{11}, -1-\sqrt{11}\right)$$

$$\bigcirc (\sqrt{11} - 5, \sqrt{11} - 1)$$

$$\bigcirc$$
  $(5 + \sqrt{11}, 1 + \sqrt{11})$ 

• 
$$(-5\sqrt{11}, -\sqrt{11})$$

3. Calculate the product:  $\sqrt{7} \left(-7, \frac{4}{7}\right)$ .

$$\bigcirc \quad \left(7+\sqrt{7} \text{ , } \sqrt{7}-\tfrac{4}{7}\right)$$

$$\bigcirc \ (-7\sqrt{7}, \frac{4}{7} - \sqrt{7})$$

$$\bigcirc \left(\sqrt{7}-7,\,\frac{4}{7}+\sqrt{7}\right)$$

2. Calculate the product:  $\sqrt{11} (7, \frac{7}{9})$ .

$$\bigcirc \quad \left(7\,\sqrt{11}\,\text{, } \frac{7}{9}-\sqrt{11}\,\right)$$

• 
$$(7\sqrt{11}, \frac{7\sqrt{11}}{9})$$

$$\bigcirc (\sqrt{11} - 7, \sqrt{11} - \frac{7}{9})$$

$$\bigcirc \quad \left(7 + \sqrt{11} , \frac{7}{9} + \sqrt{11} \right)$$

4. Compute the product of the scalar  $\sqrt{7}$  and vector (5, 4).

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

$$\bigcirc$$
 (5, 4 $\sqrt{7}$ )

$$\bigcirc \quad \left(5+\sqrt{7} \text{ , } 4+\sqrt{7} \right)$$

• 
$$(5\sqrt{7}, 4\sqrt{7})$$

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

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

- $\left(\frac{\sqrt{7}}{2}, 3\sqrt{7}\right)$
- $\bigcirc \left(\frac{\sqrt{7}}{2}, \frac{3}{\sqrt{7}}\right)$
- $\bigcirc \quad \left(\sqrt{7}\,-\tfrac{1}{2},\;\sqrt{7}\,-3\right)$
- 7. Multiply the vector  $\left(-6, -\frac{7}{5}\right)$  by the scalar  $-\sqrt{5}$ .

$$\bullet \ \left(6\sqrt{5}\ , \frac{7}{\sqrt{5}}\right)$$

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

$$\bigcirc (-6-\sqrt{5}, -\frac{7}{5}-\sqrt{5})$$

$$\bigcirc \left(6\sqrt{5}, \frac{7}{5\sqrt{5}}\right)$$

6. Calculate the product:  $-\sqrt{11} \left(-\frac{3}{5}, -\frac{8}{9}\right)$ .

$$\bigcirc \quad \left(\frac{3\sqrt{11}}{5}, \sqrt{11} - \frac{8}{9}\right)$$

$$\bigcirc \left(-\frac{3}{5}-\sqrt{11},-\frac{8}{9}-\sqrt{11}\right)$$

$$\bigcirc \left(\frac{3}{5} - \sqrt{11}, \frac{8}{9} - \sqrt{11}\right)$$

8. Compute the product of the scalar  $-\sqrt{5}$  and vector (-3, 7).

$$\bigcirc$$
  $\left(3\sqrt{5},7+\sqrt{5}\right)$ 

$$\bigcirc (-3-\sqrt{5}, 7-\sqrt{5})$$

$$\bigcirc (3-\sqrt{5}, -7-\sqrt{5})$$

• 
$$(3\sqrt{5}, -7\sqrt{5})$$

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

$$\bigcirc (3-\sqrt{7}, \frac{7}{6}-\sqrt{7})$$

$$\bigcirc (-3-\sqrt{7}, -\frac{7}{6}-\sqrt{7})$$

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

11. Compute the product of the scalar  $\sqrt{11}$  and vector  $\left(-\frac{8}{5}, \frac{5}{8}\right)$ .

$$\bigcirc \left(-\frac{8}{5}, \frac{5\sqrt{11}}{8}\right)$$

$$\bigcirc (\sqrt{11} - \frac{8}{5}, \frac{5}{8} + \sqrt{11})$$

• 
$$\left(-\frac{8\sqrt{11}}{5}, \frac{5\sqrt{11}}{8}\right)$$

$$\bigcirc \quad \left(\frac{8}{5} + \sqrt{11} \text{ , } \sqrt{11} - \frac{5}{8}\right)$$

10. Compute the product of the scalar  $\sqrt{5}$  and vector  $\left(-\frac{9}{2}, -6\right)$ .

$$\bigcirc \left(\frac{9}{2} + \sqrt{5}, 6 + \sqrt{5}\right)$$

$$\bigcirc \left(-\frac{9\sqrt{5}}{2}, -6-\sqrt{5}\right)$$

$$(\sqrt{5} - \frac{9}{2}, \sqrt{5} - 6)$$

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

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

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

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

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

13. Compute the product of the scalar  $\sqrt{11}$  and vector  $\left(-4, -\frac{9}{5}\right)$ .

• 
$$\left(-4\sqrt{11}, -\frac{9\sqrt{11}}{5}\right)$$

$$\bigcirc (4 + \sqrt{11}, \frac{9}{5} + \sqrt{11})$$

$$\bigcirc \left(-4\sqrt{11}, -\frac{9}{5\sqrt{11}}\right)$$

$$\bigcirc \quad \left(\sqrt{11} - 4, \ \sqrt{11} - \frac{9}{5}\right)$$

14. Compute the product of the scalar  $\sqrt{7}$  and vector (6, -1).

$$\bigcirc \ \left( 6+\sqrt{7} \text{ , } \sqrt{7}-1 \right)$$

$$\bigcirc \quad \left(\sqrt{7} - 6, \ 1 + \sqrt{7}\right)$$

$$\bigcirc$$
  $(6\sqrt{7}, -1-\sqrt{7})$ 

**15**. Compute the product of the scalar  $-\sqrt{3}$  and vector  $(\frac{9}{2}, -\frac{7}{2})$ .

$$\bigcirc \quad \left(-\frac{9}{2} - \sqrt{3} \text{ , } \frac{7}{2} - \sqrt{3} \right)$$

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

$$\bigcirc \quad \left(\frac{9}{2}, \, \frac{7\sqrt{3}}{2}\right)$$

16. Compute the product of the scalar  $-\sqrt{7}$  and vector (5, 7).

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

$$\bigcirc \quad \left(5-\sqrt{7} \text{ , } 7-\sqrt{7} \right)$$

• 
$$(-5\sqrt{7}, -7\sqrt{7})$$

$$\bigcirc (-5-\sqrt{7},-7-\sqrt{7})$$

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

$$\bigcirc (-7\sqrt{3}, 2\sqrt{3})$$

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

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

• 
$$(-7\sqrt{3}, 6\sqrt{3})$$

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

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

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

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

18. Calculate the product:  $\sqrt{5}$  (  $\sqrt{8}$ )

$$\sqrt{5} \left(-4, \frac{8}{5}\right)$$
.

$$\bigcirc \left(\sqrt{5} - 4, \frac{8}{5} + \sqrt{5}\right)$$

$$\bigcirc \quad \left(4+\sqrt{5} \text{ , } \sqrt{5} - \frac{8}{5}\right)$$

$$\bigcirc \left(-4\sqrt{5}, \frac{8}{5} - \sqrt{5}\right)$$

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

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

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

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