

5-9 Operations with Complex Numbers**Warm Up**

Express each number in terms of i .

1. $\sqrt{-81}$
2. $-\sqrt{-18}$

Find each complex conjugate.

3. $6 - i\sqrt{3}$
4. $4i + \sqrt{2}$

Find each product.

5. $(2 + \sqrt{2})(3 - \sqrt{2})$
6. $(6 + 3\sqrt{3})(1 + \sqrt{3})$

5-9 Operations with Complex Numbers

Warm Up

Express each number in terms of i .

1. $\sqrt{-81}$ $9i$

2. $-\sqrt{-18}$ $-3i\sqrt{2}$

Find each complex conjugate.

3. $6 - i\sqrt{3}$ $6 + i\sqrt{3}$

4. $4i + \sqrt{2}$ $\sqrt{2} - 4i$

Find each product.

5. $(2 + \sqrt{2})(3 - \sqrt{2})$ $4 + \sqrt{2}$

6. $(6 + 3\sqrt{3})(1 + \sqrt{3})$ $15 + 9\sqrt{3}$