

Simplify.

1) $2\sqrt{12} \cdot 4\sqrt{6}$

2) $-2\sqrt{5} \cdot 5\sqrt{10} \cdot 8\sqrt{2}$

3) $\sqrt{-4} \cdot \sqrt{-8}$

4) $\sqrt{-24} \cdot \sqrt{10}$

5) $2i\sqrt{-100}$

6) $-3i\sqrt{-3} \cdot 4\sqrt{-15}$

7) i^{17}

8) i^{38}

9) $5i^{87}$

$$10) -4i^{14} \cdot i^6$$

$$11) (-3i^{22})^3$$

$$12) 3i^{11}(4i^9)^2$$

$$13) (12i^3)(-3i^{45})$$

$$14) 2i^5\sqrt{-16}$$

$$15) (-3i^9)^2\sqrt{-2} \cdot \sqrt{6}$$

$$16) 3i^{15}(-2i^7)^4 \cdot \frac{1}{2}\sqrt{-3} \cdot \sqrt{6}$$