

Write in terms of i .

1) $\sqrt{-64}$

1) _____

2) $\sqrt{-160}$

2) _____

Perform the indicated operation. Write the result in the form $a + bi$.

3) $(2 - 6i) + (6 + 9i)$

3) _____

4) $(3 + 9i) - (-5 + i)$

4) _____

Find each product. Write the result in the form $a + bi$.

5) $4i(3 - 3i)$

5) _____

6) $(2 - 9i)(8 + 4i)$

6) _____

Divide and simplify to the form $a + bi$.

7) $\frac{5 + 8i}{4 - 2i}$

7) _____

Answer Key

Testname: 12.7_PRACTICEPP

1) $8i$

2) $4i\sqrt{10}$

3) $8 + 3i$

4) $8 + 8i$

5) $12 + 12i$

6) $52 - 64i$

7) $\frac{1}{5} + \frac{21}{10}i$