

## HW 2B.1 Complex Numbers - Rationalizing the Denominator

**Simplify.**

1)  $(-7 - 6i)(4 + 7i)$

2)  $(3 + 2i)(6 + 5i)$

3)  $(-8i)(7i)(6 - 8i)$

4)  $(4i)(-4i)(6 + 6i)$

5)  $(-4 - 2i)^2$

6)  $(-1 + 5i)(-5 - 4i)$

7)  $(-i)(-8i)(-6 + 2i)$

8)  $(-3i)(2i)(-5 + 8i)$

9)  $(-8i)(i)(-8 + 5i)$

10)  $(-2 - 6i)(4 + 4i)$

$$11) \frac{-6 + 7i}{6 + i}$$

$$12) \frac{8i}{-2 + 7i}$$

$$13) \frac{8i}{-1 - 10i}$$

$$14) \frac{8 - 4i}{5 - 7i}$$

$$15) \frac{3i}{1 - 5i}$$

$$16) \frac{4}{-9 - 7i}$$

$$17) \frac{-5 - 3i}{10 + 4i}$$

$$18) \frac{2 - 10i}{-8 + 7i}$$

$$19) \frac{4 - i}{10 - 4i}$$

$$20) \frac{10i}{9 + 4i}$$