

## Section 6.8 WS II

**Simplify.**

1)  $\frac{5}{3+4i}$

2)  $\frac{2}{3-i}$

3)  $\frac{-1-2i}{-1+2i}$

4)  $\frac{6-i\sqrt{2}}{6+i\sqrt{2}}$

5)  $\frac{\sqrt{5}}{1-i\sqrt{5}}$

**Find the Reciprocal of the Complex Number**

6)  $2 + 3i$

7)  $-4 - 2i$

8)  $-\sqrt{3} + i\sqrt{6}$

9)  $\sqrt{5} + 3i$

10)  $5i - \sqrt{2}$