Handout 4: i Spy and Some Leftover R & D

1. Simplify: $3\sqrt{-8}$.

2. Simplify: $\sqrt{-81} - \sqrt{100}$.

3. Simplify: i^{101}.

4. Simplify: $\dfrac{24i^4i^5}{6i^3}$.

5. Simplify: $(14 + 2i) - (6 - 5i)$.

6. Simplify: $(3 + 4i)(2 - 2i)$.

7. Simplify completely: $\dfrac{7}{\sqrt{2}}$.

8. Simplify completely: $\dfrac{6}{\sqrt{2}}$.

9. Simplify completely: $\dfrac{3\sqrt{6}}{\sqrt{7}}$.

10. Simplify completely: $\left(\dfrac{7}{\sqrt{2}}\right)\left(\dfrac{6}{\sqrt{6}}\right)$.