Advanced Algebra
5.6 Operation Worksheet

Name: Answers
Date: _____

Write the expression as a complex number in standard form: a + bi

1. $(3+2i)+(-5+8i)$

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

$1-10i$

3. $(5-8i)-(2+9i)$

4. $(5-4i)(3+6i)$

5. $(2+5i)^2$

$(2+5i)(2+5i)$

$4+10i+10i+25i^2$

$4+20i-25$

$-21+20i$

$i^2=-1$

6. $(4+8i)(4-8i)$

7. $2(2+i)+(1-i)^2$

8. $(1-5i)(2+i)-i(3-4i)$

$2+i-10i-5i^2-3i+4i^2$

$2-12i-i^2$

$2-12i+1$

$3-12i$

$i^2=-1$