Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_\_\_\_

Solving Complex equations. Must show work to receive full credit.

Simplify each expression and write it in standard form.

1) $x^{2}=-9$

2) $x^{2}+8=3$

3) $\left(x+1\right)^{2}=-121$

4) $5x^{2}+16=-29$

5) $14-4x^{2}=38$

6) $\left(x-9\right)^{2}-2=-82$

7) $-3\left(x+6\right)^{2}+1=37$

8) $4\left(x-5\right)^{2}-3=-59$

9) $\left(2x-1\right)^{2}+5=-23$

10) $-\left(6x+5\right)^{2}=-72$