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

Simplifying Complex expressions. Must show work to receive full credit.

Simplify each expression and write it in standard form.

1) $\sqrt{-9}$

2) $\sqrt{-242}$

3) $6\sqrt{-45}$

4) $-12i\sqrt{98}$

5) $\sqrt{-32}∙\sqrt{-27}$

6) $7i\sqrt{-126}$

7) $\sqrt{-\frac{16}{80}}$

8) $\left(11-5i\right)+\left(6-7i\right)$

9) $\left(14+21i\right)-\left(20+9i\right)$

10) $\left(8-i\right)-\left(3+4i\right)+15i$

11) $-10i-\left(1-4i\right)$

12) $\left(0.2+1.5i\right)-\left(-0.6+i\right)$

13) $6+\left(18-i\right)-\left(2+12i\right)$

14) $-i+\left(19+22i\right)-\left(8-14i\right)$