

Name: _____

Imaginary and Complex Numbers

1) Simplify each expression

1) i^{4567}

2) i^{117}

3) i^{1001}

4) i^{4032}

5) $i^{2143} + i^{976}$

6) $i^{102} + i^{57}$

7) $i^{23} + i^{67} - i^{15}$

8) $i^{34} - i^{91} - i^{86}$

2) Write $\sqrt{-25}$ as an imaginary number3) Write $\sqrt{16} - \sqrt{-36}$ as a complex number

4) Simplify: $\frac{2 + i^{137}}{1 + i^{1003}}$