

Precalculus:

Homework
1/29-2/2

due: Tuesday:

Simplify and/or combine:

1. i^{47}

2. $(-i)^{23}$

3. $3i^{30}$

4. $i + i^2 + i^3 + i^4 + i^5$

5. $i^{50} + i^{51}$

6. $(i^n)^4$

7. $2\sqrt{-16} + 6\sqrt{-25} - 4\sqrt{-36}$

8. $4\sqrt{-2} \cdot 7\sqrt{-3}$

9. $\frac{24\sqrt{-8}}{3\sqrt{-2}}$

10. $\sqrt{-27} + 3\sqrt{-48}$

Wednesday: read pp. 53-56

pp. 57-58 / #2, 4, 10, 11, 12, 30, 32, 34, 35, 36

Thursday: read pp. 56-57

1. pg. 58 / #22, 23, 24, 44

2. Find x and y : $2x - y + xi = 3 + 8i$

3. Find the absolute value of: (a) $5 - 7i$ (b) $-6 - 8i$

4. Solve for x :

a. $ix^2 - 3x - 2i = 0$

b. $x^2 - 6ix = 9$

c. $x^2 + (1 + 2i)x + (-1 + i) = 0$

Friday: Find the square roots of: (a) $3 + 4i$ (b) $15 - 8i$

on: Monday: test