

Name : _____

Powers of i

Sheet 3

Part - A

Simplify.

1) i^5

2) i^{91}

3) i^{157}

4) i^{640}

5) i^{83}

6) i^{18}

7) i^{324}

8) i^{70}

9) i^{45}

12) i^{56}

Simplify.

1) $i^{94} + i^{243} - i^{105}$

$i^{999}(i^{730} + i^{52})$

4) $i^{11} - i^{73}$

5) $(i^{751})(i^{546})$

6) $i^{579} - i^{25} + i^{836} + i^{52}$

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Powers of iPart - A

Simplify.

1) i^5

i

2) i^{91}

-i

3) i^{157}

i

4) i^{640}

1

5) i^{83}

-i

6) i^{18}

7) i^{324}

8) i^{70}

-1

9) i^{45}

i

12) i^{56}

1

Simplify.

1) $i^{94} + i^{243} - i^{105}$

-1 - 2i

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-2i

$i^{999}(i^{730} + i^{52})$

0

4) $i^{11} - i^{73}$

-2i

5) $(i^{751})(i^{546})$

i

6) $i^{579} - i^{25} + i^{836} + i^{52}$

2 - 2i