

Name : \_\_\_\_\_

## Real Part and Imaginary Part

Sheet 1

A) Complete the table.

Q.No	Complex numbers	Real parts	Imaginary parts
1)	$\frac{12 + \sqrt{-16}}{4}$		
2)	$4 + 7i - 8$		
3)	$\frac{\sqrt{9} + \sqrt{-4}}{5}$		
4)	$-2 - \sqrt{-25}$		
5)	$\frac{15 - 13i}{3}$		

B) Form the complex numbers with the given real parts and imaginary parts.

1) Real part = 5

Imaginary part = 3

\_\_\_\_\_

2) Real part = -13

Imaginary part = 6

\_\_\_\_\_

3) Real part = -8

Imaginary part = -4

\_\_\_\_\_

4) Real part = 16

Imaginary part = -19

\_\_\_\_\_

5) Real part = 10

Imaginary part = 7

\_\_\_\_\_

6) Real part = -4

Imaginary part = 1

\_\_\_\_\_

7) Real part = -12

Imaginary part = -2

\_\_\_\_\_

8) Real part = 9

Imaginary part = 11

\_\_\_\_\_

9) Real part = 17

Imaginary part = -14

\_\_\_\_\_

Name : \_\_\_\_\_

**Answer key**

Sheet 1

**Real Part and Imaginary Part**

A) Complete the table.

Q.No	Complex numbers	Real parts	Imaginary parts
1)	$\frac{12 + \sqrt{-16}}{4}$	<b>3</b>	<b>1</b>
2)	$4 + 7i - 8$	<b>-4</b>	<b>7</b>
3)	$\frac{\sqrt{9} + \sqrt{-4}}{5}$	<b><math>\frac{3}{5}</math></b>	<b><math>\frac{2}{5}</math></b>
4)	$-2 - \sqrt{-25}$	<b>-2</b>	<b>-5</b>
5)	$\frac{15 - 13i}{3}$	<b>5</b>	<b><math>-\frac{13}{3}</math></b>

B) Form the complex numbers with the given real parts and imaginary parts.

- 1) Real part = 5                      2) Real part = -13                      3) Real part = -8  
Imaginary part = 3                      Imaginary part = 6                      Imaginary part = -4

**$5 + 3i$**

**$-13 + 6i$**

**$-8 - 4i$**

- 4) Real part = 16                      5) Real part = 10                      6) Real part = -4  
Imaginary part = -19                      Imaginary part = 7                      Imaginary part = 1

**$16 - 19i$**

**$10 + 7i$**

**$-4 + i$**

- 7) Real part = -12                      8) Real part = 9                      9) Real part = 17  
Imaginary part = -2                      Imaginary part = 11                      Imaginary part = -14

**$-12 - 2i$**

**$9 + 11i$**

**$17 - 14i$**