

# Absolute Value

Find the absolute value of each complex number.

1)  $9i$

2)  $4 - \sqrt{-49}$

3)  $2(1 + 3i)$

4)  $-8 - 4i$

$-5 + \sqrt{-16}$

7)  $\frac{2 + \sqrt{-1}}{3}$

$-6$

10) The absolute

value of  $a^2$  is

a) 12

d) 169

11) What is the absolute value of the complex number  $(12 + 2i) - (3 + 3i)$ ?

a)  $\sqrt{106}$

b) 9

c)  $\sqrt{15}$

d)  $\sqrt{82}$

12) If  $(3, 4)$  represents a complex number  $z$  on the complex plane, then what is the absolute value of  $z$ ?

a) 5

b)  $\sqrt{5}$

c) 25

d) 7

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3)  $2(1 + 3i)$

**9** **$\sqrt{65}$**  **$2\sqrt{10}$** 

4)  $-8 - 4i$

$-5 + \sqrt{-16}$

 **$4\sqrt{5}$**  **$\sqrt{41}$** 

7)  $\frac{2 + \sqrt{-1}}{3}$

 $-6$  **$\frac{\sqrt{5}}{3}$** **6**

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