Name : _____

Absolute Value

Sheet 3

Find the absolute value of each complex number.

1) $\frac{3 - 7i}{9}$

2) $-7 + 4i$

3) $\sqrt{-64}$

4) $-10i$

$-6(-2 - i)$

7) $1 + 6i$

$-8 - \sqrt{-25}$

10) What is the a) – (2 – 3i)?

a) 11

d) $\sqrt{85}$

11) If (12, 5) represents a complex number z on the complex plane, then what is the absolute value of $\overline{z}$?

a) 13 b) 12 c) 5 d) 11

12) The absolute value of the complex number 8 + bi is $\sqrt{68}$. What is the value of $\frac{a^2}{b^2}$?

a) 4 b) $\frac{1}{4}$ c) 16 d) $\frac{1}{16}$

Name : _____

Answer key

Absolute Value

Sheet 3

Find the absolute value of each complex number.

1) $\frac{3 - 7i}{9}$

2) $-7 + 4i$

3) $\sqrt{-64}$

$\frac{\sqrt{58}}{9}$

$\sqrt{65}$

8

4) $-10i$

$-6(-2 - i)$

10

$6\sqrt{5}$

7) $1 + 6i$

$-8 - \sqrt{-25}$

$\sqrt{37}$

$\sqrt{89}$

10) What is the a) – (2 – 3i)?

a) 11

d) $\sqrt{85}$

11) If (12, 5) represents a complex number z on the complex plane, then what is the absolute value of $\overline{z}$?

a) 13 b) 12 c) 5 d) 11

12) The absolute value of the complex number 8 + bi is $\sqrt{68}$. What is the value of $\frac{a^2}{b^2}$?

a) 4 b) $\frac{1}{4}$ c) 16 d) $\frac{1}{16}$