Name : _____

Absolute Value

Sheet 1

Find the absolute value of each complex number.

1) $2 + i$

2) 7

3) $8 - \sqrt{-36}$

4) $-1 + \sqrt{-9}$

$\sqrt{100} - 2i$

7) $-6i$

$4(-5 - 3i)$

10) The absolute

a) $\sqrt{z}$

d) $\sqrt{\frac{\bar{z}}{z}}$

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11) The absolute value of the complex number $3 + bi$ is $\sqrt{130}$. What is the value of b?

a) $b = \pm 11$ b) $b = 121$ c) $b = \pm 3$ d) $b = 9$

12) What is the absolute value of the complex number $(9 + 2i) + (3 + 3i)$?

a) 169 b) 144 c) 25 d) 13

Name : _____

Answer key

Absolute Value

Sheet 1

Find the absolute value of each complex number.

1) $2 + i$ — $\sqrt{5}$

2) 7 — 7

3) $8 - \sqrt{-36}$ — 10

4) $-1 + \sqrt{-9}$ — $\sqrt{10}$

$\sqrt{100} - 2i$ — $2\sqrt{26}$

7) $-6i$ — 6

$4(-5 - 3i)$ — $4\sqrt{34}$

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