

Absolute Value of Complex Numbers

Find the absolute value of each complex number.

(1) $|9 + 7i|$

(2) $|-8 + 6i|$

(3) $|1 - 7i|$

(4) $|-6 + 5i|$

(5) $|-5 + i|$

(6) $|7 - 2i|$

(7) $|4 - 4i|$

(8) $|\sqrt{100} - 4i|$

(9) $|3 - 9i|$

(10) $|4(-6 - 8i)|$

(11) $|-1 + \sqrt{-9} + 2i|$

(12) $|(7 - 3i) + (2 + 2i)|$

(13) $|1 - i|$

(14) $|2 - 8i|$

(15) $|11 - 12i|$

(16) $|8 + 3i|$

(17) $|19|$

(18) $|7i|$

(19) $|(-3 - 4i) - (1 + i)|$

(20) $|2 - 3i - 2|$

(21) $|8 - \sqrt{-36}|$

Absolute Value of Complex Numbers

Answers

(1) $|9 + 7i|$

$\sqrt{130}$ -----

(2) $|-8 + 6i|$

10 -----

(3) $|1 - 7i|$

$5\sqrt{2}$ -----

(4) $|-6 + 5i|$

(5) $|-5 + i|$

(6) $|7 - 2i|$

$\sqrt{61}$ -----

(7) $|4 - 4i|$

$\sqrt{26}$ -----

(8) $|\sqrt{100} - 4i|$

$\sqrt{53}$ -----

(9) $|3 - 9i|$

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

(10) $|4(-6 - 8i)|$

$2\sqrt{29}$ -----

(11) $|-1 + \sqrt{-9} + 2i|$

$3\sqrt{10}$ -----

(12) $|(7 - 3i) + (2 + 2i)|$

40 -----

(13) $|1 - i|$

$\sqrt{26}$ -----

(14) $|2 - 8i|$

$\sqrt{82}$ -----

(15) $|11 - 12i|$

$\sqrt{2}$ -----

(16) $|8 + 3i|$

$2\sqrt{17}$ -----

(17) $|19|$

$\sqrt{265}$ -----

(18) $|7i|$

$\sqrt{73}$ -----

(19) $|(-3 - 4i) - (1 + i)|$

19 -----

(20) $|2 - 3i - 2|$

7 -----

(21) $|8 - \sqrt{-36}|$

$\sqrt{41}$ -----

3 -----

10 -----