

# Dividing Complex Numbers

Divide

[1]  $\frac{9 + \sqrt{-4}}{3 - 7i}$

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[2]  $\frac{-20 + 16i}{6 - \sqrt{-25}}$

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[3]  $\frac{19i}{5i - 3}$

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[4]  $\frac{16 + i}{i}$

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[5]  $\frac{-13 + 2i}{-11i}$

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[6]  $\frac{24}{-10 + 4i}$

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[7]  $\frac{11 - 6i}{-6 + 2i}$

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[8]  $\frac{(-5i - 4)i}{8}$

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[9]  $\frac{(39 + 2i)}{11i}$

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[10]  $\frac{14 + 4\sqrt{-4}}{i}$

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[11]  $\frac{13 + 2i}{6i}$

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[12]  $\frac{9 - 4i}{10 + i}$

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# Dividing Complex Numbers

## Answers

$$[1] \quad \frac{9 + \sqrt{-4}}{3 - 7i}$$

$$[2] \quad \frac{-20 + 16i}{6 - \sqrt{-25}}$$

$$[3] \quad \frac{19i}{5i - 3}$$

$$\frac{13}{58} + \frac{69}{58}i$$

$$-\frac{200}{61} - \frac{4}{61}i$$

$$\frac{95}{34} - \frac{57}{34}i$$

$$[4] \quad \frac{16 + i}{i}$$

$$[5] \quad \frac{-13 + 2i}{-11i}$$

$$[6] \quad \frac{24}{-10 + 4i}$$

$$1 - 16i$$

$$-\frac{2}{11} - \frac{13}{11}i$$

$$-\frac{60}{29} - \frac{24}{29}i$$

$$[7] \quad \frac{11 - 6i}{-6 + 2i}$$

$$[8] \quad \frac{(-5i - 4)i}{8}$$

$$[9] \quad \frac{(39 + 2i)}{11i}$$

$$-\frac{39}{20} + \frac{7}{20}i$$

$$\frac{5}{8} - \frac{1}{2}i$$

$$\frac{2}{11} + \frac{39}{11}i$$

$$[10] \quad \frac{14 + 4\sqrt{-4}}{i}$$

$$[11] \quad \frac{13 + 2i}{6i}$$

$$[12] \quad \frac{9 - 4i}{10 + i}$$

$$8 - 14i$$

$$2 - \frac{13}{6}i$$

$$\frac{86}{101} - \frac{49}{101}i$$