

Rationalize the denominators

Rationalize the denominator and then simplify.

1) $\frac{10 - \sqrt{-9}}{4 + 2i}$

2) $\frac{-18 + 2i}{5 - 4i}$

3) $\frac{35}{12i}$

4) $\frac{2 - 8i}{7 - 3i}$

$\frac{-7 - 5i}{2 + \sqrt{-64}}$

7) $\frac{13}{6 + i}$

$\frac{15 + 3i}{-2 - 4i}$

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10) $\frac{-11 + i}{6 + 2i}$

11) $\frac{12 + 5i}{1 - i}$

12) $\frac{-\sqrt{25} + \sqrt{-9}}{3 + 3i}$

Rationalize the denominators

Rationalize the denominator and then simplify.

1) $\frac{10 - \sqrt{-9}}{4 + 2i}$

$\frac{17}{10} - \frac{8}{5}i$

2) $\frac{-18 + 2i}{5 - 4i}$

$-\frac{98}{41} - \frac{62}{41}i$

3) $\frac{35}{12i}$

$-\frac{35}{12}i$

4) $\frac{2 - 8i}{7 - 3i}$

$\frac{19}{29} - \frac{25}{29}i$

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$\frac{-7 - 5i}{2 + \sqrt{-64}}$

$-\frac{27}{34} + \frac{23}{34}i$

7) $\frac{13}{6 + i}$

$\frac{78}{37} - \frac{13}{37}i$

$\frac{15 + 3i}{-2 - 4i}$

$-\frac{21}{10} + \frac{27}{10}i$

10) $\frac{-11 + i}{6 + 2i}$

$-\frac{8}{5} + \frac{7}{10}i$

11) $\frac{12 + 5i}{1 - i}$

$\frac{7}{2} + \frac{17}{2}i$

12) $\frac{-\sqrt{25} + \sqrt{-9}}{3 + 3i}$

$-\frac{1}{3} + \frac{4}{3}i$