

Rationalize the denominators

Rationalize the denominator and then simplify.

1) $\frac{12 + 5i}{3 - 7i}$

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

3) $\frac{7 - 8i}{9i}$

4) $\frac{6 - \sqrt{-32}}{1 + \sqrt{-8}}$

$\frac{16 + i}{4 - \sqrt{-25}}$

7) $\frac{-20 - 16i}{i}$

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

10) $\frac{-13 + 2i}{-3 - 5i}$

11) $\frac{24}{-2 + i}$

12) $\frac{-10 + 4i}{-11i}$

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