

Rationalizing the Denominator

Rationalize each denominator, and then simplify.

1) $\frac{-8 + 6i}{10 - 4i}$

2) $\frac{16}{-12 + 6i}$

3) $\frac{-10i}{7 - i}$

4) $\frac{17 - \sqrt{-25}}{2 - 2i}$

5) $\frac{5}{3 - 4i}$

6) $\frac{19}{5i}$

7) $\frac{11 + \sqrt{-9}}{11 - \sqrt{-9}}$

8) $\frac{\sqrt{36}}{7i}$

9) $\frac{-22 + 6i}{3 + \sqrt{-1}}$