

In Exercises 59–62, perform the operation and write the result in standard form.

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

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Principal Square Root of a Negative Number

If a is a positive number, the **principal square root** of the negative number $-a$ is defined as

$$\sqrt{-a} = \sqrt{a}i.$$

In Exercises 63–72, use the Quadratic Formula to solve the quadratic equation.

70. $\frac{7}{8}x^2 - \frac{3}{4}x + \frac{5}{16} = 0$

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In Exercises 73–80, simplify the complex number and write it in standard form.

74. $4i^2 - 2i^3$

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