$$2+3i$$

Simplify:

$(5i-3)(2i+1)$

$$-13-i$$

What are the values of x and y?

$$3 + yi = x - 7i$$

$$x = 3$$

$$y = -7$$

Scavenger Hunt

What are the values of x and y?

$$(x + 6i) = (3 - i) + (4 - 2yi)$$

$$x = 7$$

$$y = -\frac{7}{2}$$

Scavenger Hunt

Simplify:

$(1-i)^3$

$$-2 - 2i$$

Simplify:

$$\left(\frac{\sqrt{3}}{2} + \frac{1}{2}i \right)^3$$

i

Scavenger Hunt

Find the product of the complex number and its complex conjugate:

$$5 - 6i$$

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Scavenger Hunt

Find the product of the complex number
and its complex conjugate:

$$-1 - i\sqrt{2}$$

3

Scavenger Hunt

Write in the standard form $a + bi$:

$$\frac{2+i}{3i}$$

$$\frac{1}{3} - \frac{2}{3}i$$

Scavenger Hunt

Write in the standard form $a + bi$:

$$\frac{(2-i)(1+2i)}{5+2i}$$

$$\frac{26}{29} + \frac{7}{29}\,i$$

Scavenger Hunt

Write in the standard form $a + bi$:

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

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

Scavenger Hunt

Solve:

$3x^2 + x + 2 = 0$

$$x = -\frac{1}{6} \pm \frac{i\sqrt{23}}{6}$$

Scavenger Hunt

Solve:

$$x^2 + x + 11 = 5x - 8$$

$$x = 2 \pm i\sqrt{15}$$

Scavenger Hunt

Simplify:

$\left|4 - 7i\right|$

$$\sqrt{65}$$

Scavenger Hunt

Simplify:

$$\left|-115+252i\right|$$

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Scavenger Hunt

If 2 - 3*i* is a solution to $ax^2 + bx + c = 0$, then what is the other solution?