

Name : _____

Complex Numbers - Add / Subtract

Sheet 1

Simplify.

1) $\left(\frac{3 - \sqrt{-16}}{2}\right) + \left(\frac{2 - 8i}{4}\right)$

2) $(-6i + 23) - 30$

3) $(-5i - 20) - (1 + 7i)$

4) $(-12 - 13i) + (16 + i) - (\sqrt{49} + 2i)$

5) $(19i + 18) - (-10 + 17i) - 7i$

6) $\left(\frac{2 - 4i}{4}\right) - \left(\frac{5 + \sqrt{-4}}{6}\right)$

7) $(-9 - \sqrt{-32}) - (2 + \sqrt{-8})$

8) $(26 - 13i) + (-11 + 13i)$

9) $\left(\frac{-1 - 5i}{5}\right) + (-1 - 6i)$

10) $(15 + 8i) - (-i - \sqrt{100})$

Name : _____

Answer key

Complex Numbers - Add / Subtract

Sheet 1

Simplify.

1) $\left(\frac{3 - \sqrt{-16}}{2}\right) + \left(\frac{2 - 8i}{4}\right)$

$2 - 4i$

2) $(-6i + 23) - 30$

$-7 - 6i$

3) $(-5i - 20) - (1 + 7i)$

$-21 - 12i$

4) $(-12 - 13i) + (16 + i) - (\sqrt{49} + 2i)$

$-3 - 14i$

5) $(19i + 18) - (-10 + 17i) - 7i$

$28 - 5i$

6) $\left(\frac{2 - 4i}{4}\right) - \left(\frac{5 + \sqrt{-4}}{6}\right)$

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

7) $(-9 - \sqrt{-32}) - (2 + \sqrt{-8})$

$-11 - 6\sqrt{2}i$

8) $(26 - 13i) + (-11 + 13i)$

15

9) $\left(\frac{-1 - 5i}{5}\right) + (-1 - 6i)$

$-\frac{6}{5} - 7i$

10) $(15 + 8i) - (-i - \sqrt{100})$

$25 + 9i$