

Name: _____

Date: _____ Score: _____

Simplifying Radicals Using Imaginary Numbers

Simplify

1 $\sqrt{-12}$

2 $\sqrt{-128}$

3 $\sqrt{-512}$

4 $\sqrt{-36}$

5 $\sqrt{-147}$

6 $(-5 - 4i) + (8 - 7i)$

7 $(-3 - 8i) - (6i + 3i)$

8 $(-4 - 5i) - (4 + 6i)$

9 $(-6 - 7i) + (2 + 6i)$

10 $(-5 - 4i) + (8 - 7i)$

Name: _____

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Simplifying Radicals Using Imaginary Numbers

Answers

$\sqrt{-12}$

$\sqrt{-128}$

$2\sqrt{3}i$

$8\sqrt{2}i$

$\sqrt{-512}$

$\sqrt{-36}$

$16\sqrt{2}i$

$6i$

$\sqrt{-147}$

$(-5 - 4i) + (8 - 7i)$

$\sqrt{37}i$

$3 - 11i$

$(-3 - 8i) - (6i + 3i)$

$(-4 - 5i) - (4 + 6i)$

$-9 - 11i$

$-8 - 11i$

$(-6 - 7i) + (2 + 6i)$

$(-5 - 4i) + (8 - 7i)$

$-4 - i$

$3 - 11i$