

1. $\sqrt{-192}$

2. $7\sqrt{-294}$

3. $(5 - \sqrt{-16}) - (6 + \sqrt{-49})$

4. $3i(7 - 2i)$

5. $(2 - 4i)(3 - 2i)$

Algebra 2 Bellwork
Simplify each.

Thursday, December 3, 2015

Answers

1. $\sqrt{-192}$
 $64 \cdot 3$

$8i\sqrt{3}$

2. $7\sqrt{-294}$
 $49 \cdot 6$

$7 \cdot 7i\sqrt{6}$
 $= 49i\sqrt{6}$

3. $(5 - \sqrt{-16}) - (6 + \sqrt{-49})$

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

$= -1 - 11i$

4. $3i(7 - 2i)$

$21i - 6i^2$
 $= 21i - 6(-1)$
 $= 21i + 6$
 $= 6 + 21i$

5. $(2 - 4i)(3 - 2i)$

$2 \quad -4i$

	6	$-12i$
3		
	$-4i$	$+8i^2$
$-2i$		$+8(-1)$
		$= -8$

$-2 - 16i$