

Name Schlansky
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Date _____
Algebra II



Reducing Negative Radicals

Reduce the following radicals

1. $\sqrt{12}$
 $\sqrt{4} \sqrt{3}$
 $2\sqrt{3}$

2. $\sqrt{50}$
 $\sqrt{25} \sqrt{2}$
 $5\sqrt{2}$

3. $\sqrt{162}$
 $\sqrt{81} \sqrt{2}$
 $9\sqrt{2}$

4. $\sqrt{40}$
 $\sqrt{4} \sqrt{10}$
 $2\sqrt{10}$

5. $\sqrt{45}$
 $\sqrt{9} \sqrt{5}$
 $3\sqrt{5}$

6. $\sqrt{108}$
 $\sqrt{36} \sqrt{3}$
 $6\sqrt{3}$

7. $\sqrt{63}$
 $\sqrt{9} \sqrt{7}$
 $3\sqrt{7}$

8. $\sqrt{125}$
 $\sqrt{25} \sqrt{5}$
 $5\sqrt{5}$

PS
1
4
9
16
25
36
49
64
81
100

PS
1
4
9
16
25
36
49
64
81
100

9. $\sqrt{-18}$
 $i\sqrt{18}$
 $i\sqrt{9}\sqrt{2}$
 $3i\sqrt{2}$

10. $\sqrt{-50}$
 $i\sqrt{50}$
 $i\sqrt{25}\sqrt{2}$
 $5i\sqrt{2}$

11. $\sqrt{-28}$
 $i\sqrt{28}$
 $i\sqrt{4}\sqrt{7}$
 $2i\sqrt{7}$

12. $\sqrt{-75}$
 $i\sqrt{75}$
 $i\sqrt{25}\sqrt{3}$
 $5i\sqrt{3}$

13. $\sqrt{-20}$
 $i\sqrt{20}$
 $i\sqrt{4}\sqrt{5}$
 $2i\sqrt{5}$

14. $\sqrt{-54}$
 $i\sqrt{54}$
 $i\sqrt{9}\sqrt{6}$
 $3i\sqrt{6}$

15. $\sqrt{-180}$
 $i\sqrt{180}$
 $i\sqrt{36}\sqrt{5}$
 $6i\sqrt{5}$

16. $\sqrt{-32}$
 $i\sqrt{32}$
 $i\sqrt{16}\sqrt{2}$
 $4i\sqrt{2}$