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Date _____
Algebra II

PS
1
4
9
16
25
36
49
64
81
100

Imaginary Numbers

Reduce the following radicals

1. $\sqrt{-64}$

$$i\sqrt{64}$$
$$8i$$

2. $\sqrt{-50}$

$$i\sqrt{50}$$
$$\begin{array}{c} PS \quad NPS \\ i\sqrt{25} \sqrt{2} \\ 5i\sqrt{2} \end{array}$$

3. $\sqrt{-45}$

$$i\sqrt{45}$$
$$\begin{array}{c} PS \quad NPS \\ i\sqrt{9} \sqrt{5} \\ 3i\sqrt{5} \end{array}$$

4. $\sqrt{-75}$

$$i\sqrt{75}$$
$$\begin{array}{c} PS \quad NPS \\ i\sqrt{25} \sqrt{3} \\ 5i\sqrt{3} \end{array}$$

5. $\sqrt{-20}$

$$i\sqrt{20}$$
$$\begin{array}{c} PS \quad NPS \\ i\sqrt{4} \sqrt{5} \\ 2i\sqrt{5} \end{array}$$

6. $\sqrt{-54}$

$$i\sqrt{54}$$
$$\begin{array}{c} PS \quad NPS \\ i\sqrt{9} \sqrt{6} \\ 3i\sqrt{6} \end{array}$$

7. $\sqrt{-162}$

$$i\sqrt{162}$$
$$\begin{array}{c} PS \quad NPS \\ i\sqrt{81} \sqrt{2} \\ 9i\sqrt{2} \end{array}$$

8. $\sqrt{-32}$

$$i\sqrt{32}$$
$$\begin{array}{c} PS \quad NPS \\ i\sqrt{16} \sqrt{2} \\ 4i\sqrt{2} \end{array}$$