

Algebra II Worksheet #3 Unit 5 page 1 _____

Express each of the following as imaginary numbers in **bi** form. (Simplify any square roots.)

1. $\sqrt{-4} = \underline{\hspace{2cm}}$

2. $\sqrt{-49} = \underline{\hspace{2cm}}$

3. $\sqrt{-7} = \underline{\hspace{2cm}}$

4. $\sqrt{-12} = \underline{\hspace{2cm}}$

5. $\sqrt{-6} = \underline{\hspace{2cm}}$

6. $\sqrt{-48} = \underline{\hspace{2cm}}$

7. $\sqrt{-20} = \underline{\hspace{2cm}}$

8. $\sqrt{-128} = \underline{\hspace{2cm}}$

Express each of the following in simplest form.

9. $\sqrt{225} = \underline{\hspace{2cm}}$

10. $\sqrt[3]{216} = \underline{\hspace{2cm}}$

11. $\sqrt{-64} = \underline{\hspace{2cm}}$

12. $\sqrt[3]{-64} = \underline{\hspace{2cm}}$

13. $\sqrt{\frac{5}{9}} = \underline{\hspace{2cm}}$

14. $\sqrt[3]{\frac{3}{5}} = \underline{\hspace{2cm}}$

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Express each of the following in simplest form.

15. $\sqrt{\frac{-7}{8}} =$

16. $\sqrt[3]{\frac{-5}{12}} =$

17. $\sqrt{2.5} =$

18. $\sqrt[3]{2.5} =$

19. $\sqrt{-1.25} =$

20. $\sqrt[3]{-0.96} =$