

General Algebra II Class Worksheet #5 Unit 7 page 1 _____

Perform the indicated operations. Answers which are complex numbers must be expressed using a + bi form.

1. $\frac{8i}{4i} =$

2. $\frac{8}{4i} =$

3. $\frac{6+9i}{3} =$

4. $\frac{4-9i}{6} =$

5. $\frac{4-8i}{4i} =$

6. $\frac{4-2i}{-2i} =$

7. $\frac{5+6i}{-3i} =$

8. $\frac{3+7i}{3i} =$

9. $\frac{6+17i}{4+3i} =$

10. $\frac{17+i}{3-i} =$

11. $\frac{-13-13i}{2-3i} =$

12. $\frac{22-7i}{3+2i} =$

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Perform the indicated operations. Answers which are complex numbers must be expressed using a + bi form.

13. $\frac{3 + 5i}{1 - 2i} =$

14. $\frac{4 - i}{1 + 3i} =$

15. $\frac{5}{1 + 2i} =$

16. $\frac{-2}{3 - i} =$

17. $\frac{5i}{1 + 2i} =$

18. $\frac{-2i}{3 - i} =$

Write the multiplicative inverse of each of the following using a + bi form.

19. $4 + 3i$ _____

20. $3 - i$ _____