

4.8 Algebra 2

Homework. Do all of these problems.

Simplify each number by using the imaginary number i .

8. $\sqrt{-4}$

9. $\sqrt{-7}$

10. $\sqrt{-15}$

11. $\sqrt{-81}$

12. $\sqrt{-50}$

Plot each complex number and find its absolute value.

13. $2i$

14. $5 + 12i$

15. $2 - 2i$

16. $1 - 4i$

17. $3 - 6i$

Simplify each expression.

18. $(2 + 4i) + (4 - i)$

19. $(-3 - 5i) + (4 - 2i)$

20. $(7 + 9i) + (-5i)$

21. $(12 + 5i) - (2 - i)$

22. $(-6 - 7i) - (1 + 3i)$

23. $(8 + i)(2 + 7i)$

24. $(-6 - 5i)(1 + 3i)$

25. $(-6i)^2$

26. $(9 + 4i)^2$

Write each quotient as a complex number.

27. $\frac{3 - 2i}{5i}$

31. $\frac{4}{2 - 3i}$

29. $\frac{4 - 3i}{-1 - 4i}$

Name _____

See Problem

See Problem

See Problems 3 a

See Problem

Just find the Conjugate of 13-17.