(a) State the degree of each variable in the monomial.
(b) State the degree of the monomial.

14. $-5xy^4z^3$

15. $-10xyz$

16. $-2u^4v^6w^2$

Simplify.

17. $x^2 \bullet x^5$

18. $(-3s)(7s^2)$

19. $(-x^2y^3)(3xy^2)(-2x^3y)$

20. $-(2k^5)^6$

21. $(3t^3)^2$

22. $(2x^2y)^5$

23. $(2x)^2(2x)^4$

24. $(3a^2b)^3(2a^3b)$

Divide the monomials (simplify the quotients)

25. $\frac{3x^2r}{9xr^2}$

26. $\frac{(5a^2)^3}{(5a^3)^2}$

27. $\frac{12y^2}{4xy}$

28. $\frac{xy^2z^3}{x^3y^2z}$

Directions: Simplify

29. $\frac{5^{-2}}{5^4}$

30. $\left(\frac{3^0 \cdot 2}{2^{-2}}\right)^{-3}$

31. 8^{-2}

32. $x^{-1}y^2$

33. $(3x^{-2})^3$

34. $\frac{y^3}{y^{-5}}$

Multiply

35. $\frac{1}{2}x^2(6x^2 - 9xy - 3y^2)$

36. $pq^2(p^2 - 3pq - 4q^2)$

37. $(5b - 5)(5b - 3)$

38. $(-7x - y)(-3x - 2y)$

39. $(-7x + 6y)(8x^2 + 3xy + 2y^2)$