**Express the number in the form a/b, where a and b are integers.**

1. 2. ( – 2-4 3. (-0.008)2/3 4.

**Simplify.**

5. (4a3/2)(2a1/2) 6. (8r)1/3(2r1/2) 7. (8x-2/3)x1/6 8. (

9. 10. 11. ( 12. (3x5/6)(8x2/3)

**Rewrite the expression using rational exponents.**

13. 14. 15.

**Rewrite the expression using a radical.**

16. 4 + x3/2 17. (4 + x)3/2 18. (4x)3/2

**Simplify the expression, and rationalize the denominator when appropriate.**

19. 20. 21. 22.

23. 24. 25. 26.

Simplify the expression, assuming x and y may be negative.

27. 28.

29. The length-weight relationship for Pacific halibut can be approximated by the formula L = 0.46, where W is in kilograms and L is in meters. The largest documented halibut weighed 230 kilograms. Estimate its length.

30. The length-weight relationship for a whale can be approximated by W = 0.0016L2.43, where W is in tons and L is in feet. Estimate the weight of a whale that is 25 feet long.