

Problem 70 (ME April 1998)

How many cubic meters is 100 gallons of liquid?

- A. 0.1638 cu. meters
- B. 1.638 cu. meters
- C. 0.3785 cu. meters
- D. 3.7850 cu. meters

Problem 71 (ME October 1995)

The number of board feet in a plank 3 inches thick, 1 foot wide, and 20 feet long is:

- A. 30
- B. 60
- C. 120
- D. 90

Problem 72

Which of the following is correct?

- A. 1 horsepower = 746 kW
- B. 1 horsepower = 0.746 watts
- C. 1 horsepower = 0.746 kW
- D. 1 horsepower = 346 watts

Problem 73 (ME October 1996)

The acceleration due to gravity in English unit is equivalent to?

- A. 32.2 ft/sec²
- B. 3.22 ft/sec²
- C. 9.81 ft/sec²
- D. 98.1 ft/sec²

Problem 74 (ME April 1999)

The prefix nano is opposite to:

- A. mega
- B. tera
- C. hexa
- D. giga

Problem 75 (ME October 1996)

10 to the 12th power is the value of the prefix:

- A. giga
- B. pico
- C. tera
- D. peta

Exponents and Radicals**Problem 76**

Solve for x: $x = -(1/-27)^{-2/3}$

- A. 9
- B. 1/9
- C. -9
- D. -1/9

Problem 77

Solve for a in the equation: $a = 64x4y$

- A. $4x+3y$
- B. $43xy$
- C. $256xy$
- D. $43x+y$

Problem 78

Simplify $3x - 3x^{-1} - 3x^{-2}$

- A. $3x^{-2}$
- B. $33x^{-3}$
- C. $5 \times 3x^{-2}$
- D. $13 \times 3x$

Problem 79

Which of the following is true?

- A. $\sqrt{-2} \times \sqrt{-2} = 2$
- B. $24 = 4\sqrt{6}$
- C. $\sqrt{10} = \sqrt{5} + \sqrt{2}$
- D. $55 + 55 + 55 + 55 + 55 = 56$

Problem 80

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