

FINAL TEST ALL RIGHTS RESERVED © 2000 Solve for the variable, show all work.

1) $17 = x - \frac{-8}{2}$ 2) $x - \frac{61}{2} = \frac{3}{4}$ 3) $\frac{5}{9} = x - \frac{3}{5}$ 4) $\frac{x}{3} + 7 = 8$ 5) $\frac{2}{3x} + \frac{5}{8} = \frac{1}{2}$ 6) $\frac{3}{4x} + \frac{1}{2} = \frac{7}{8}$ 7) $\frac{6x - 15}{5} = \frac{84 - 3x}{3}$ 8) $\frac{6x + 15}{5} = \frac{40 + 2x}{4}$ 9) $7x - 8 + 9x + 12 - \frac{11x}{20} = 2x + 5 + 7x + 2 + 3x + 5 - 10x + 1$ 10) $\frac{-8x + 7 + 2x + 6 + 3x + 9 + 4x + 3 = 4x + 2 - 19x + 6 + 10x + 4 + 5x + 11$

11) $\frac{-4(3 + N)}{(3 - 5)} = 5$ 12) $\frac{1}{2} = \frac{3}{4}$

13)



Formula for Frustum of a right cylinder

$$V = \frac{\pi r^2}{2} \quad (h + k)$$

$$\Pi = 3.14 \qquad Find the volume.$$

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Finding the area of an annulus. (the blue area)

$$6''=r_1$$

 $A = \prod (r_1 + r_2)(r_2 - r_1)$
 $16''=r_2$

Use these values in the problems below. Solve and Label properly.