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# Algebra 2 work problems worksheet

Name : \_\_\_\_\_ Score : \_\_\_\_\_  
 Teacher : \_\_\_\_\_ Date : \_\_\_\_\_

## Exponential Equations Not Requiring Logarithms

Solve each given equation.

1)  $10^{2x+3} = 100$

8)  $\frac{10^y}{10^{y+2}} = 10^{2y}$

2)  $7^{2k+2} = 7^{-3k}$

9)  $\left(\frac{1}{2}\right)^{x+1} \cdot 4^{2x} = \frac{1}{4}$

3)  $9^{2m} \cdot 9^{3m} = 729$

10)  $10^{2g+1} = 1000$

4)  $7^{2a+1} \cdot 7^{4a} = 7^{-4a}$

11)  $8^{2a+3} = 8^{-2a}$

5)  $2^{2x} \cdot 2^{4x} = \frac{1}{4}$

12)  $6^{2b} \cdot 6^{3b} = 36$

6)  $2^{3a+1} \cdot 4 = 2^{-2d}$

13)  $6^{3n-3} \cdot 6^{-2n} = 6^{-2n}$

7)  $9^{4a+1} \cdot 3^{-2b} = 27$

14)  $9^{3a} \cdot 9^{-4b} = \frac{1}{81}$

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Multiply and Divide by Powers of Ten (A)

Find each product or quotient.  
 37  $\times 10^5 =$       46  $\times 10^{-1} =$   
 35  $\times 10^{-2} =$       53  $: 10^{-3} =$   
 96  $\times 10^{-2} =$       17  $: 10^1 =$   
 68  $: 10^3 =$       96  $: 10^0 =$   
 43  $: 10^{-3} =$       75  $: 10^{-2} =$   
 16  $: 10^{-3} =$       75  $: 10^2 =$   
 61  $\times 10^{-2} =$       82  $\times 10^{-7} =$   
 8  $: 10^4 =$       91  $\times 10^0 =$   
 43  $: 10^4 =$       49  $\times 10^{-1} =$   
 14  $\times 10^{-3} =$       29  $\times 10^1 =$

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WS #12      WS: 1.2a - Two Step & Distributive      Name \_\_\_\_\_

Standard H.I.A.2.C2: I can simplify algebraic expressions (like terms) including distributive property.

Directions: Simplify

1.  $3(x + 4)$       2.  $5(a - 3)$       3.  $2(x + 8)$       4.  $4(x - 2)$

5.  $-2(x + 3)$       6.  $2(3x - 2)$       7.  $3(5x + 1)$       8.  $-5(4 - x)$

9.  $-\{2x - 1\}$       10.  $4(3a - 4)$       11.  $3(2x + 2)$       12.  $-6(5x + 2)$

13.  $x(x + 3)$       14.  $-2x(x - 1)$       15.  $3a(2a - 4)$       16.  $-x(5x + 2)$

Standard H.I.A.4.C2: I can solve a two-step equation

Directions: Solve

17.  $3y - 7 = 8$       18.  $6x + 2 = -10$       19.  $-4x + 6 = 34$       20.  $15 = 2m - 9$

21.  $29 = -8t - 3$       22.  $7 - 5u = -43$       23.  $14 + 4x = 38$       24.  $-30 = -9x - 3$

25.  $3(r - 4) = -57$       26.  $-40 = 2(4 - 3s)$       27.  $3x + 9 = 5$       28.  $8x - 1 = 11$

29.  $\frac{1}{2}t + 6 = -7$       30.  $12 - \frac{1}{3}u = 2$       31.  $\frac{2}{3}n + 6 = 10$       32.  $-7 - 6y = 13$

## Algebra 2 Worksheet

### Factoring Quadratic Expressions

NAME \_\_\_\_\_

1.  $x^2 + 2x - 8$

6.  $3x^3 - 2x^2 - 5x$

2.  $x^2 - 5x - 14$

7.  $x^2 - 8x - 20$

3.  $x^2 - 7x - 18$

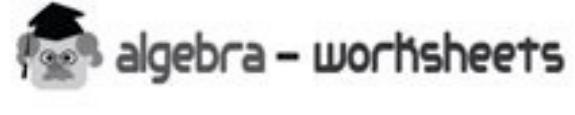
8.  $2x^4 - 6x^3 - x^2 + 3x$

4.  $5x^2 - 40x$

9.  $x^2 + 7x + 12$

5.  $x^2 - 6x - 16$

10.  $x^2 - 10x + 25$



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The pipe A can fill the tank in 4.5 hours, while both pipes together can fill the tank in 2 hours. The equation used to solve problems of this type is one of the reciprocals. If both taps are open, the sink fills in 2.1 minutes.

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