Algebra 1 Unit 0 Algebra Sk	Name
Order of Operations:	
When simplifying or evaluating an expression, pr	
1) <u>Par enth e 5, 5</u> are done first	
2) <u>Exponents</u> are done next 3) <u>Multiplying</u> Dividi 4) Adding & Subtraction	
★When there are 2 or more parenthesis or grou	ping symbols→ Perform the <i>inner</i> most one first!

Solve the following using the Order of Operations. Circle answers please!

$$2)\frac{20+4}{4+3^2-1} = \frac{34}{13} = \frac{3}{13}$$

3)
$$\frac{1}{4}(8 \cdot 3) + 7$$

$$\frac{1}{4}(34) + 7$$

$$\frac{1}{4}(34) + 7$$

$$\frac{1}{4}(34) + 7$$

4)
$$11 - 24(8 - 5) \div 2^{2}$$

$$11 - 24(3) \div 2^{3}$$

$$11 - 24(3) \div 4$$

$$11 - 72 \div 4$$

$$11 - 18$$

$$11 - 18$$

5)
$$-3^{2} + 4[16 \div (-7 + 5)]$$
 $(-3)^{2} = 9$
 $-3^{2} + 4[16 \div (-7 + 5)]$
 $-3^{2} + 4$

Evaluating Expressions:

7)
$$2x^2 + 6$$
; when x=4

8)
$$2x^3 + 5$$
; when $x=10$

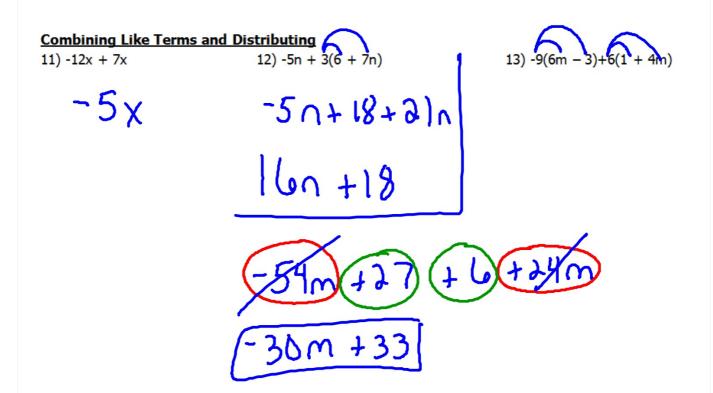
9)
$$\frac{x}{3}$$
 – 12y; when x=15 and y=-3

10)
$$\frac{xy-2z}{-(-x)}$$
 ; when x=-4, y =5, and z=-2

$$\frac{15}{3} - 12(-3)$$
 $5 + +36$
 $\frac{411}{3}$

$$\frac{-4.5-2.-2}{-(++4)}$$

$$\frac{-2.0+4}{-4} = \frac{-16}{-4}$$



14)
$$-3(10b+1b) + 5b(b+2)$$
 (15) $2x + 3(4x + 5y) + 9y$ 16) $-8x(x + 1) - 3x^2 + 4$

$$-3x^2 - 3y + 4$$

$$-5x^2 - 8x - 3x^2 + 4$$

$$-5x^2 - 8x - 3x^2 + 4$$

$$-11x^2 - 8x + 4$$

$$-11x^2 - 8x + 4$$

$$-11x^2 - 8x + 4$$

Review Packet

1-36000

ALGEBRA 1
Unit 0



Solving Linear Equations

 To solve a linear equation, you must "undo" the operation that is being done to the var 	iriable
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•	Goal→	

•	keep the equation balanced:	i nis means	
•	Check by		



2)
$$6x - 9 = 35 + 2x$$

1)
$$-4x = 16$$
 2) $6x - 9 = 35 + 2x$ 3) $-2(2x + 9) = -54$

4)
$$\frac{5}{4}$$
x - 7 = 3

4)
$$\frac{5}{4}x - 7 = 3$$
 5) $5x - 2(3 - x) = -(4 - x)$ 6) $-3(5 - 4x) = 12x$

$$6) - 3(5 - 4x) = 12x$$

Mathematical Formulas

- Solve for the indicated variable
- 7) A = $\frac{1}{2}bh$ Solve for h.

8) $C = 2\pi r$ Solve for r.

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	a <i>closed</i> dot is us	ed for	! ! ≤	į
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