Alg 1
Review Ch. 1.1-1.4
Ch. 1 test Monday
Quiz 1.7 today

Example 1

Write a verbal expression for $4x + 9$.

$2n^3 - 12$

Example 2

Write an algebraic expression for *the difference of twelve and two times a number cubed.*

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Example 4

Evaluate the expression $3(9-5)^2 \div 8$.

$3(4)^2 \div 8$

$3 \cdot 16 \div 8$

6

Example 5

Evaluate the expression $(5m - 2n) \div p^2$ if $m = 8$, $n = 4$, $p = 2$.

$m \to 8 \quad n \to 4 \quad p \to 2$

$(5 \cdot 8 - 2 \cdot 4)$

$(40 - 8)$

$\frac{32}{4} =$

Example 7

Use the Distributive Property to rewrite the expression $5(3 + 8)$. Then evaluate. $= 55$

$5 \cdot 3 + 5 \cdot 8$

$15 + 40 = 55$

Example 8

Rewrite the expression $6(x + 4)$ using the Distributive Property. Then simplify.

$6x + 6 \cdot 4$

$6x + 24$

Example 9

Rewrite the expression $(3x - 2)(-5)$ using the Distributive Property. Then simplify.

$-5(3x - 2)$

$-5 \cdot 3x - 5 \cdot -2$

$-15x + 10$

Evaluate each expression. Name the property used in each step.

7. $13 + (16 - 4^2)$

8. $\frac{2}{9}[9 \div (7 - 5)]$

9. $37 + 29 + 13 + 21$

$13 + (16 - 4^2)$

$13 + (16 - 16)$ Subs

$13 + 0$ + inverse

13 add ident

Rewrite each expression using the Distributive Property. Then simplify.

10. $4(x + 3)$

11. $(5p - 2)(-3)$

$4 \cdot x + 4 \cdot 3$

$4x + 12$

$f(x) = x^2 + 6$

$f(5) = (5)(5) + 6$

$f(-3) = (-3)(-3) + 6$

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