

Algebra Skills:

Evaluating an expression

Exponents and powers

Order of operations

Writing equations and inequalities

The real number line

Addition of real numbers

Subtraction of real numbers

Multiplication of real numbers

Division of real numbers

Distributive Property

Collecting Like Terms

Graphing Coordinates

Main Ideas	Details
	A) 2^x when $x = 4$ B) x^3 when $x = 4$ C) $(x + y)^3$ when $x = 2$ and $y = 1$ D) $(x - y)^3$ when $x = 2$ and $y = 1$ E) $(x - 4)^2$ when $x = 10$ F) $x - y^3$ when $x = 10$ and $y = 2$ G) $x^2 - y^3$ when $x = 10$ and $y = 4$

A) $(2x)^2$ when $x = 3$

B) $2x^2$ when $x = 3$

C) $(3x)^4$ when $x = 2$

D) $3x^4$ when $x = 2$

Evaluate the expression	A) $5 + 10 - 2$ B) $10 \div 2 + 3 \cdot 4$ C) $6 + 2 \cdot 4 - 3$ D) $12 \div 2 \cdot 4^2$ E) $2 \cdot 3^2 \div 3$ F) $10 \div (3 + 2) + 9$ G) $7[(18 - 6) - 6]$ H) $[10 + (3^2 \cdot 2)] \div 4$ I) $\frac{10 \cdot 2}{3 + 2^3 - 1}$ J) $\frac{13 - 4}{18 - 4^2 + 1}$

Evaluate the expression
for the given value of
the variable

A) $4 + 3x^2$ when $x = 2$ B) $5 \cdot 3x^2$ when $x = 3$

C) $4x^2 - 10$ when $x = 2$ D) $\frac{x}{2} + 4 \cdot 5$ when $x = 10$

E) $\frac{x-3}{2}$ when $x = -13$ F) $\frac{2x-6}{5}$ when $x = 8$

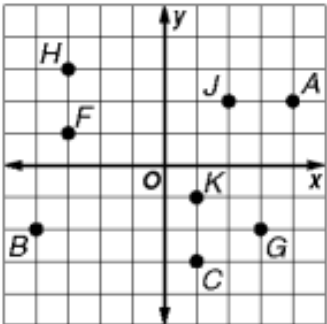
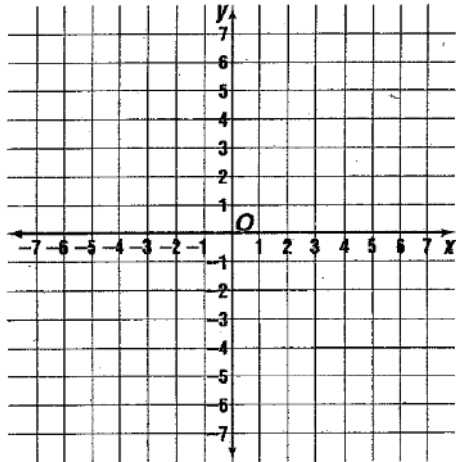
G) $\frac{3x-y}{5}$ when $x = -10$ $y = 15$

H) $\frac{2x^2-3}{y}$ when $x = -3$ $y = 5$

Main Ideas	Details
Evaluate the expression	A) $-5x$ when $x = 2$ B) $x^3 - 2$ when $x = -3$ C) $2x^2 - 3x$ when $x = -3$ D) $2x + x^3$ when $x = -2$ E) $-3x^2 + 2x - 5$ when $x = 3$ F) $x - 3$ when $x = -3$

Main Ideas	Details
Use the distributive property to rewrite the expression without parenthesis	A) $5(x - 2)$ B) $-2(x - 4)$ C) $-3(x + 5)$ D) $(x + 2)6$ E) $\frac{3}{5}(x + 10)$ F) $\frac{-2}{3}(x - 6)$

Simplify the expression by collecting like terms	A) $5x + 2x$ B) $-5x + 2x$ C) $-5x - 2x$ D) $3 + x + 7$ E) $2 + x + x$ F) $2x + 10 - 7x - 4$ G) $-5 + 5x + 10 - 2x$
Simplify the expression	A) $-2(3x + 1) + 5x$ B) $3(2 - x) - x$ C) $-4(x + 2) - 6x$ D) $7x - 3x(x + 1)$

Main Ideas	Details
Use the Coordinate plane to the right and answer the following questions 	1. What is the ordered pair for A? _____ 2. What Quadrant is B in? _____ 3. What is the ordered pair for F? _____ 4. What is the ordered pair for K? _____ 5. What point is at $(1, -3)$ _____ 6. What point is at $(-3, 3)$ _____
Plot and label the following points on the coordinate plane to the left.	7. Label the 4 Quadrants 8. M $(2, -4)$ 9. A $(0, 4)$ 10. T $(-3, 2)$ 11. H $(-5, -4)$ 12. R $(6, 6)$ 13. O $(-7, 0)$ 14. X $(-1, 5)$ 
Write an ordered pair for each of the following.	15. A point in Quadrant I _____ 16. A point in Quadrant II _____ 17. A point in Quadrant III _____ 18. A Point in Quadrant IV _____ 19. A point on the X axis _____ 20. A point on the Y axis _____