

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
	<p data-bbox="535 283 836 336">A) 2^x when $x = 4$</p> <p data-bbox="1047 283 1347 336">B) x^3 when $x = 4$</p> <p data-bbox="535 682 1079 745">C) $(x + y)^3$ when $x = 2$ and $y = 1$</p> <p data-bbox="535 934 1079 997">D) $(x - y)^3$ when $x = 2$ and $y = 1$</p> <p data-bbox="535 1197 941 1260">E) $(x - 4)^2$ when $x = 10$</p> <p data-bbox="535 1459 1063 1522">F) $x - y^3$ when $x = 10$ and $y = 2$</p> <p data-bbox="535 1711 1088 1774">G) $x^2 - y^3$ when $x = 10$ and $y = 4$</p>

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

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 $x = 8$

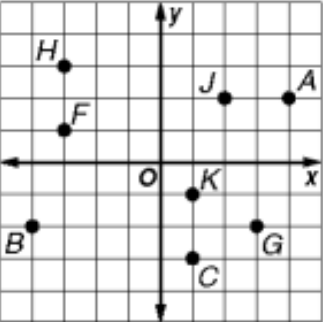
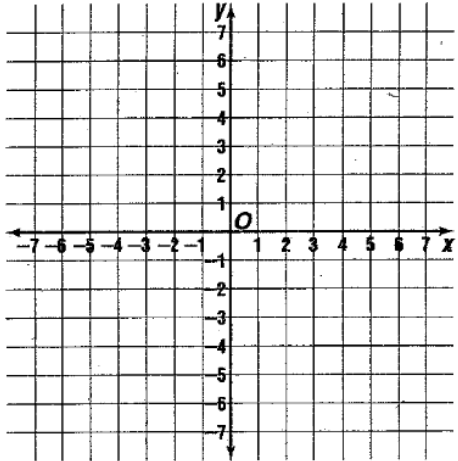
G) $\frac{3x-y}{5}$ when $x = -10$ $y = 15$

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

Main Ideas	Details
Evaluate the expression	<p data-bbox="532 277 844 315">A) $-5x$ when $x = 2$</p> <p data-bbox="1117 277 1500 315">B) $x^3 - 2$ when $x = -3$</p> <p data-bbox="532 730 909 768">C) $2x^2 - 3x$ when $x = -3$</p> <p data-bbox="1123 730 1487 768">D) $2x + x^3$ when $x = -2$</p> <p data-bbox="532 1192 964 1230">E) $-3x^2 + 2x - 5$ when $x = 3$</p> <p data-bbox="1117 1192 1461 1230">F) $x - 3$ when $x = -3$</p>

Main Ideas	Details
Use the distributive property to rewrite the expression without parenthesis	<p data-bbox="535 277 738 319">A) $5(x - 2)$</p> <p data-bbox="1101 277 1304 319">B) $-2(x - 4)$</p> <p data-bbox="535 808 755 850">C) $-3(x + 5)$</p> <p data-bbox="1101 808 1312 850">D) $(x + 2)6$</p> <p data-bbox="535 1339 722 1411">E) $\frac{3}{5}(x + 10)$</p> <p data-bbox="1101 1339 1304 1411">F) $\frac{-2}{3}(x - 6)$</p>

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

Main Ideas	Details
<p>Use the Coordinate plane to the right and answer the following questions</p> 	<ol style="list-style-type: none"> 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) _____
<p>Plot and label the following points on the coordinate plane to the left.</p>	 <ol style="list-style-type: none"> 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)
<p>Write an ordered pair for each of the following.</p>	<ol style="list-style-type: none"> 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 _____