Algebra 1 factoring with gcf worksheet

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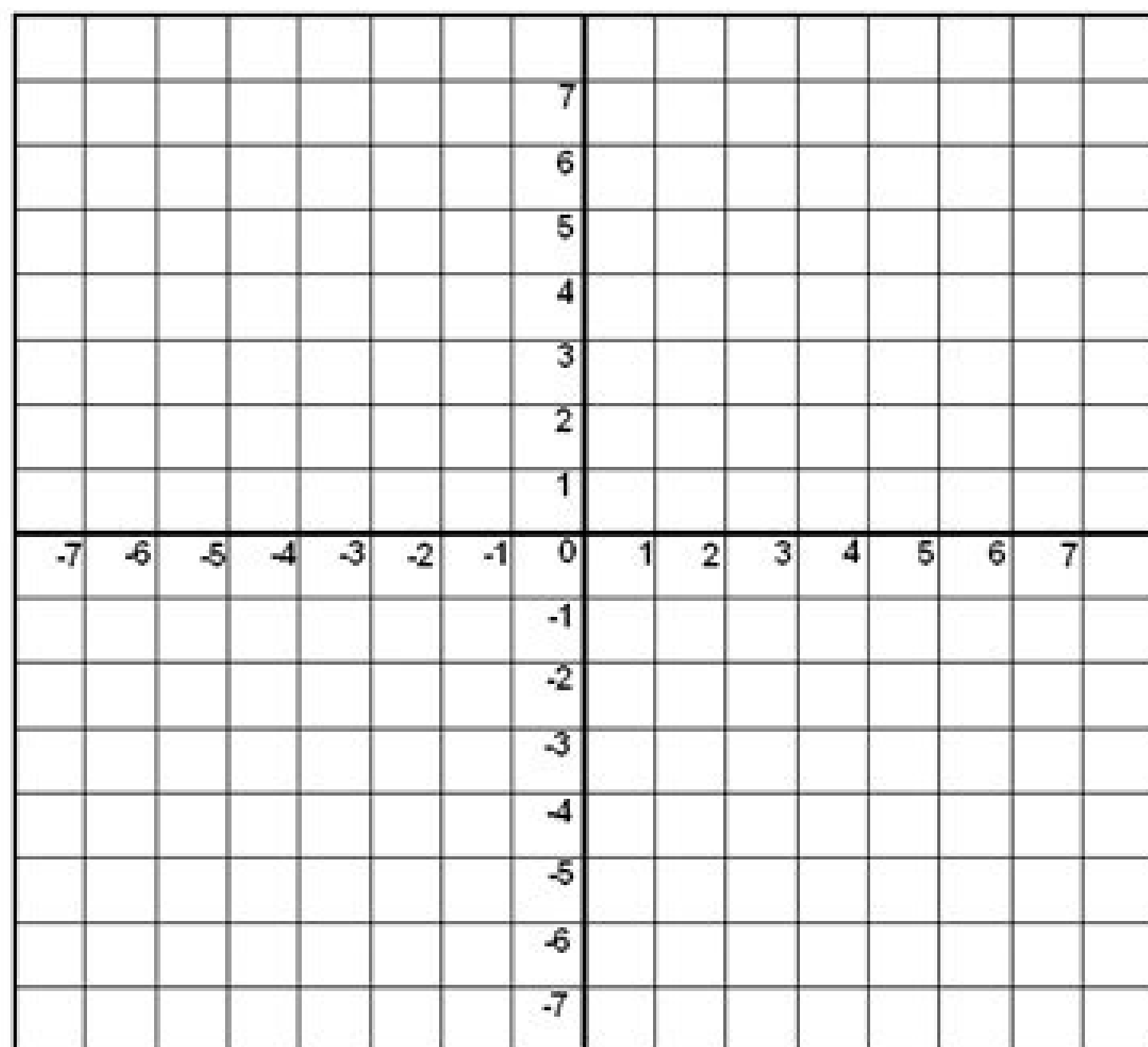## Identify the Quadrants

Plot the following points and identify the quadrant in which they lie:

A (2,-6)   B (-7, -3)   C (-5, 5)

D (-4, -1)   E (1,-1)   G (6, 4)

Algebraic Equations!

Simplify the following Equations -

1) $5x + x + 3x - x - 3x =$
2) $5x + y + 3y - y + x =$
3) $2y + 6y - t + 6t + t =$
4) $Y + Y + H + G+ D+ F+ G+ W+ T+ A+ T =$
5) $x^2 + 3x^2 + 8n^2 - 5n + x - n^2 =$

Expand the following equations –

1) $2 (x + 3)$
2) $2(3x - 3)$
3) $(x - 4) (3x + 2)$
4) $3x (x - 4)$

Factorise fully these equations –

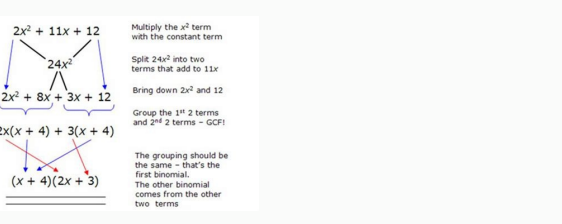Eg. $8x + 16 = 8 (x + 2)$ **FACTOR**ise a factor is a multiple of a number

1) $2x + 8$ 7) $30x + 60$
2) $3x + 9$ 8) $2x^2 + x + 1$
3) $6x + 9$ 9) $3t^2 + 3x + 3$
4) $12x + 18$ 10) ** $12c^2 + 6c + 3$
5) $5x + 100$
6) $7x + 49$

Simplifying Rational Expressions

$$\frac{2x^2 - 6xy}{4x - 12y} = \frac{2x(x-3y)}{4(x-3y)}$$

$$\frac{2x^2 + 2x - 12}{x^2 + 6x + 9}$$

What is gcf in algebra. Algebra 1 factoring with gcf worksheet answers. How to get the gcf using prime factorization.

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The answer key is automatically generated and is placed on the second page of the file. You can generate the worksheets either in html or PDF format — both are easy to print. To get the PDF worksheet, simply push the button titled "Create PDF" or "Make PDF worksheet". To get the worksheet in html format, push the button "View in browser" or "Make html worksheet". This has the advantage that you can save the worksheet directly from your browser (choose File → Save) and then edit it in Word or other word processing program. Sometimes the generated worksheet is not exactly what you want. Just try again! To get a different worksheet using the same options: PDF format: come back to this page and push the button again. Html format: simply refresh the worksheet page in your browser window. 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When you enter an expression into the calculator, the calculator will simplify the expression by expanding multiplication and combining like terms. At this point the calculator will attempt to factor the expression by dividing a GCF, and identifying a difference between two squares, or factorable trinomials. Use the following rules to enter expressions into the calculator. Variables Any lowercase letter may be used as a variable. Exponents Exponents are supported on variables using the ^ (caret) symbol. For example, to express x2, enter x^2. Note: exponents must be positive integers, no negatives, decimals, or variables. Exponents may not be placed on numbers, brackets, or parentheses. Parentheses and Brackets Parentheses ( ) and brackets [ ] may be used to group terms as in a standard expression. Multiplication, Addition, and Subtraction For addition and subtraction, use the standard + and – symbols respectively. For multiplication, use the * symbol. A * symbol is optional when multiplying a number by a variable. For instance: 2 * x can also be entered as 2x. Similarly, 2 * (x + 5) can also be entered as 2(x + 5); 2x * (5) can be entered as 2x(5). The * is also optional when multiplying parentheses, example: (x + 1)(x – 1). Order of Operations The calculator follows the standard order of operations taught by most algebra books – Parentheses, Exponents, Multiplication and Division, Addition and Subtraction. The only exception is that division is not supported; attempts to use the / symbol will result in an error. Division, Square Root, Radicals, Fractions Division, square root, radicals, and fractions are not supported. Function Graphing Calculator Factoring and Prime Factoring Calculator Simplifying Addition/Subtraction/Multiplication/Division Proportion Calculator Order of Operations Worksheets List Basic Equations Basic Proportions Consecutive Integer Word Problems

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