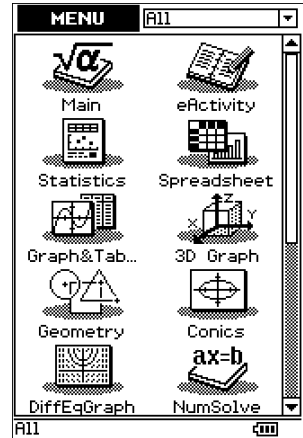


Some basic algebra!

This resource was written by Derek Smith with the support of CASIO New Zealand. It may be freely distributed but remains the intellectual property of the author and CASIO.



Default Keyboard setting



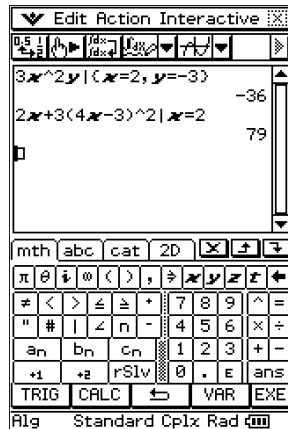
OPTN page 2



VAR page 2

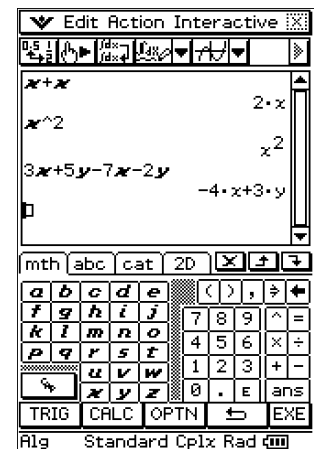
Evaluate

- $3x^2y$ for $x = 2$ and $y = -3$
- $2x + 3(4x - 3)^2$ for $x = 2$



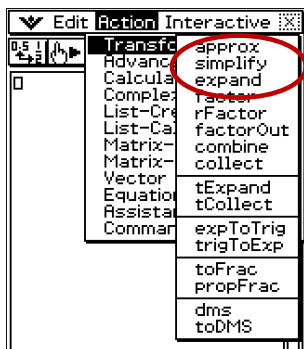
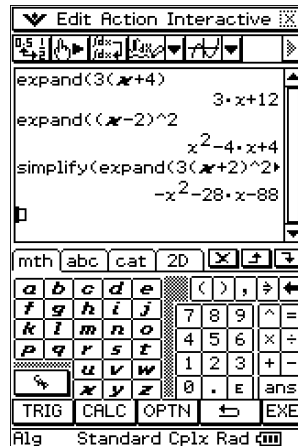
Simplify

- $x + x$
- $x \times x$
- $3x + 5y - 7x - 2y$



Expand

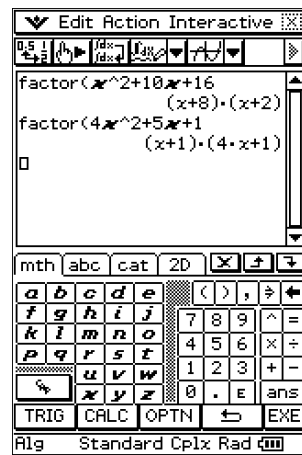
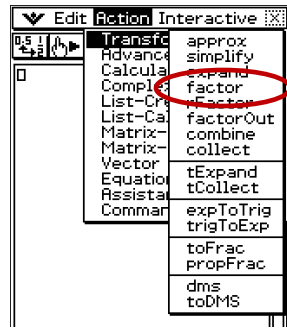
- $3(x + 4)$
- $(x - 3)^2$
- Expand and simplify $3(x + 2)^2 - 4(x + 5)^2$



Factorise

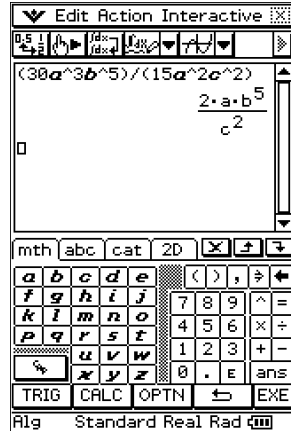
1. $x^2 + 10x - 16$

2. $4x^2 + 5x + 1$

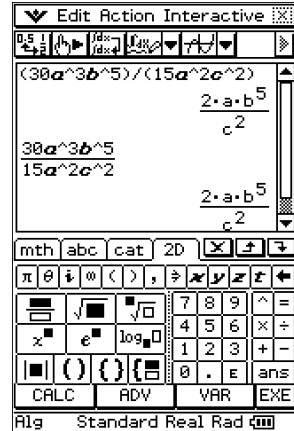


Simplify

$(30a^3b^5) \div (15a^2c^2)$

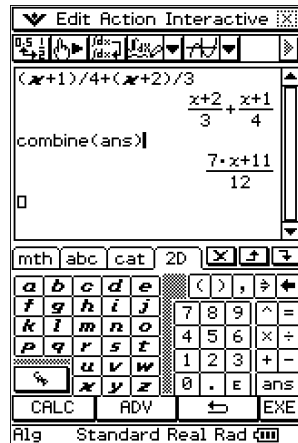
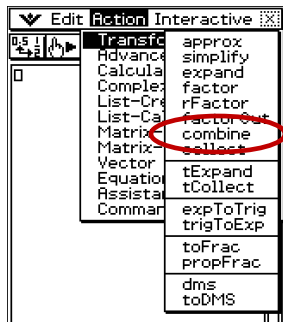


or using 2D

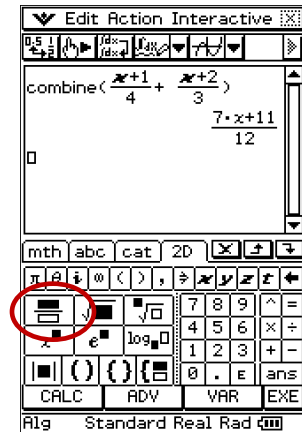


Simplify

$\frac{x+1}{4} + \frac{x+2}{3}$



or using 2D



Determine the Highest Common Factor (GCD) of 144 and 180 and the Lowest Common Multiple (LCM) of 12 and 15.

