12× 3	4	1	3− 5	2
2÷ 4	2	60× 5	1	2− 3
14+ 5	3	4	11+ 2	1
2÷ 2	1	3	4	5
1	5	24× 2	3	4

5431

~~5322~~

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16. Determine the values of k for which the function $f(x) = 4x^2 - 3x + 2kx + 1$ has ~~two~~ one zero. Check these values in the original equation.

$a = 4$

$c = 1$

$b = -3 + 2k$

$b = 2k - 3$

$b^2 - 4ac = 0$

$(2k-3)^2 - 4(4)(1) = 0$

$4k^2 - 12k + 9 - 16 = 0$

$4k^2 - 12k - 7 = 0$ Q.F. Calc

$4k^2 + 2k - 14k - 7 = 0$

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$$\left(\frac{(x^3y)^{-1}(x^4y^3)}{(x^2y^{-3})^{-2}}\right)^{-1}$$

$$\left(\frac{(x^{-3}y^{-1})(x^4y^3)}{x^{-4}y^6}\right)^{-1}$$

$$\left(\frac{x^1y^2}{x^{-4}y^6}\right)^{-1}$$

$$\rightarrow (x^{5}y^{-4})^{-1}$$

$$= x^{-5}y^{4}$$

$$= \frac{y^4}{x^5}$$

$$\left(\frac{(x^{18})^{\frac{-1}{6}}}{\sqrt[5]{243x^{10}}}\right)^{0.5}$$

$$\left(x^{2}\right)^{3}$$

$$\left(\frac{x^{-3}}{3x^{2}}\right)^{0.5}$$

$$= \left(\frac{x^{-5}}{3}\right)^{0.5} = \frac{x^{-2.5}}{3^{0.5}} = \frac{1}{\sqrt{3}\,x^{2.5}}$$

$$\left(\frac{(6x^3)^2(6y^3)}{(9xy)^6}\right)^{-\frac{1}{3}}$$

$$\left(\frac{(36x^6)(6y^3)}{531441x^6y^6}\right)^{-\frac{1}{3}}$$

$$\left(\frac{216x^6y^3}{531441x^6y^6}\right)^{-1/3}$$

$$\left(\frac{8y^{-3}}{19683}\right)^{-1/3}$$

$$\left(\frac{19683y^3}{8}\right)^{\frac{1}{3}}$$

$$\frac{27y}{2}$$