

The term involving x^2 in the above expression.

$$10a^2x^2 - 10ax^2 = 10a(a - 1)x^2$$

Putting $a = \frac{2}{5}$

$$10\left(\frac{2}{5}\right)\left(\frac{2}{5} - 1\right)x^2$$

Coefficient of x^2

$$10\left(\frac{2}{5}\right)\left(\frac{2}{5} - 1\right) = 10\left(\frac{2}{5}\right)\left(\frac{-3}{5}\right) = \frac{-60}{25} = \frac{-12}{5}$$

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