වීජීය භාග

වීජීය භාග එකතු කිරීම සහ අඩු කිරීම

01. $\dfrac{5}{8xy} + \dfrac{1}{6x^2}$

$8xy, 6x^2$ යන පදවල කු.පො.ගු. $= 24x^2y$

$24x^2y = 8xy \times 3x$

$24x^2y = 6x^2 \times 4y$

$= \dfrac{5 \times 3x}{8xy \times 3x} + \dfrac{1 \times 4y}{6x^2 \times 4y}$

$= \dfrac{15x}{24x^2y} + \dfrac{4y}{24x^2y}$

$= \dfrac{15x + 4y}{24x^2y}$

02. $\dfrac{7}{10p} - \dfrac{3}{4pr}$

$10p, 4pr$ යන පදවල කු.පො.ගු. $= 20pr$

$20pr = 10p \times 2r$

$20pr = 4pr \times 5$

$= \dfrac{7 \times 2r}{10p \times ....} - \dfrac{3 \times ....}{4pr \times ......}$

$= \dfrac{.........}{20pr} - \dfrac{.........}{20pr}$

$= \dfrac{..............}{20pr}$

03. $\dfrac{2}{3xy} + \dfrac{1}{4x}$

$3xy, 4x$ යන පදවල කු.පො.ගු. $= 12xy$

$12xy = 3xy \times ......$

$12xy = 4x \times ......$

$= \dfrac{2 \times ....}{3xy \times ......} + \dfrac{1 \times ......}{4x \times ......}$

$= \dfrac{.........}{12xy} + \dfrac{.........}{12xy}$

$= \dfrac{...........}{12xy}$

04. $\dfrac{3}{4x^2y} - \dfrac{1}{6xy^2}$

$........, ...$ යන පදවල කු.පො.ගු. $= ......$

$...... = 4x^2y \times ......$

$...... = 6xy^2 \times ......$

$= \dfrac{3 \times .....}{4x^2y \times ....} - \dfrac{1 \times ....}{6xy^2 \times ......}$

$= \dfrac{.........}{.........} - \dfrac{.........}{.........}$

$= \dfrac{..............}{.........}$

05. $\dfrac{2}{5a} + \dfrac{4}{3a} - \dfrac{1}{a}$

$5a, 3a, a$ යන පදවල කු.පො.ගු. $=$ _____

$= \dfrac{2 \times ....}{5a \times ......} + \dfrac{4 \times ......}{3a \times ......} - \dfrac{1 \times .....}{a \times .....}$

$= \dfrac{...... + ... - ......}{..........}$

$= \dfrac{...........}{........}$

06. $\dfrac{3}{4x^2} + \dfrac{1}{6xy} - \dfrac{5}{12y}$

$......, ..., ...$ යන පදවල කු.පො.ගු. $= ......$

$= \dfrac{3 \times .....}{4x^2 \times ....} + \dfrac{1 \times ....}{6xy \times ......} - \dfrac{5 \times ......}{12y \times .....}$

$= \dfrac{.........}{.........} + \dfrac{.........}{.........} - \dfrac{.........}{.........}$

$= \dfrac{..............}{.........}$
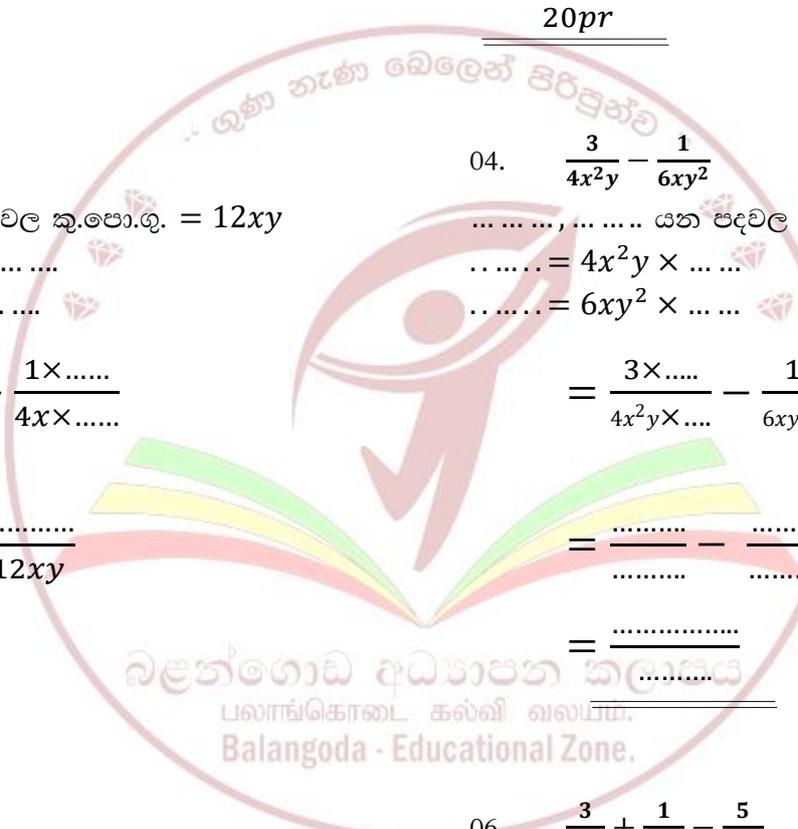
07. $\dfrac{7}{x+4}+\dfrac{3}{x-2}$

$(x+4),(x-2)$ හි කු.පො.ගු. $=(x+4)(x-2)$

$(x+4)(x-2)=(x+4)\times\ldots\ldots$

$(x+4)(x-2)=(x-2)\times\ldots\ldots$

$=\dfrac{7\times(x-2)}{(x+4)\times(x-2)}+\dfrac{3\times(\ldots\ldots\ldots)}{(x-2)\times(x+4)}$

$=\dfrac{7\times(x-2)+3\times(\ldots\ldots\ldots)}{(x+4)\times(x-2)}$

$=\dfrac{7x-14+3x+\ldots\ldots\ldots}{(x+4)(x-2)}$

$=\dfrac{\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots}{(x+4)(x-2)}$

08. $\dfrac{5}{(x+3)}-\dfrac{2}{(x+1)}$

$\ldots\ldots\ldots,\ldots\ldots\ldots$ හි කු.පො.ගු. $=(x+3)(x+1)$

$(x+3)(x+1)=(x+3)\times\ldots\ldots$

$(x+3)(x+1)=(x+1)\times\ldots\ldots$

$=\dfrac{5\times\ldots\ldots}{(x+3)\times\ldots}-\dfrac{2\times\ldots\ldots}{(x+1)\times\ldots\ldots}$

$=\dfrac{5\times\ldots\ldots-2\times\ldots\ldots}{(x+3)\times\ldots}$

$=\dfrac{\ldots\ldots\ldots\ldots\ldots\ldots\ldots}{\ldots\ldots\ldots\ldots\ldots\ldots}$

$=\dfrac{\ldots\ldots\ldots\ldots\ldots\ldots\ldots}{\ldots\ldots\ldots\ldots\ldots\ldots}$

09. $\dfrac{5}{(x+2)(x+1)}+\dfrac{2}{(x+1)(x+3)}$

හරයන් හි කු.පො.ගු. $=(x+2)(x+1)(x+3)$

$(x+2)(x+1)(x+3)=(x+2)(x+1)\times\ldots\ldots$

$(x+2)(x+1)(x+3)=(x+1)(x+3)\times\ldots\ldots$

$=\dfrac{5\times(\ldots\ldots\ldots)+2\times(\ldots\ldots\ldots)}{(x+2)(x+1)(x+3)}$

$=\dfrac{\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots}{(x+2)(x+1)(x+3)}$

$=\dfrac{\ldots\ldots\ldots\ldots\ldots\ldots\ldots}{(x+2)(x+1)(x+3)}$

10. $\dfrac{4}{(x+3)(x-2)}-\dfrac{1}{(x-2)^2}$

හරයන් හි කු.පො.ගු. $=(x+3)(x-2)^2$

$=\dfrac{4\times\ldots\ldots-1\times\ldots\ldots}{(x+3)(x-2)^2}$

$=\dfrac{\ldots\ldots\ldots\ldots\ldots\ldots}{\ldots\ldots\ldots\ldots\ldots\ldots}$

$=\dfrac{\ldots\ldots\ldots\ldots\ldots\ldots}{\ldots\ldots\ldots\ldots\ldots\ldots}$

11. $\dfrac{2}{3x}+\dfrac{1}{x-5}$

හරයන් හි කු.පො.ගු. $=3x(x-5)$

$=\dfrac{\ldots\ldots\ldots\ldots\ldots\ldots}{\ldots\ldots\ldots\ldots\ldots\ldots}$

$=\dfrac{\ldots\ldots\ldots\ldots\ldots\ldots}{\ldots\ldots\ldots\ldots\ldots\ldots}$

$=\dfrac{\ldots\ldots\ldots\ldots\ldots\ldots}{\ldots\ldots\ldots\ldots\ldots\ldots}$

12. $\dfrac{2}{x(x-3)}-\dfrac{3}{2x^2}$

හරයන් හි කු.පො.ගු. $=2x^2(x-3)$

$=\dfrac{\ldots\ldots\ldots\ldots\ldots\ldots}{\ldots\ldots\ldots\ldots\ldots\ldots}$

$=\dfrac{\ldots\ldots\ldots\ldots\ldots\ldots}{\ldots\ldots\ldots\ldots\ldots\ldots}$

$=\dfrac{\ldots\ldots\ldots\ldots\ldots\ldots}{\ldots\ldots\ldots\ldots\ldots\ldots}$

13. $\dfrac{2}{x^2+8x+12} + \dfrac{1}{x^2+5x+6}$

$x^2 + 8x + 12 = (x + 6)(x + 2)$

$x^2 + 5x + 6 = (x + 3)(x + 2)$

හරයන් හි කු.පො.ගු. $= (x + 6)(x + 2)(x + 3)$

$\dfrac{2}{x^2+8x+12} + \dfrac{1}{x^2+5x+6}$

$= \dfrac{2}{(x+6)(x+2)} + \dfrac{1}{(x+3)(x+2)}$

$= \dfrac{2(x+3)+1(x+6)}{(x+6)(x+2)(x+3)}$

$= \dfrac{\text{.........................}}{(x+6)(x+2)(x+3)}$

$= \dfrac{\text{.........................}}{(x+6)(x+2)(x+3)}$

14. $\dfrac{3}{x^2+4x-21} + \dfrac{1}{x^2-9}$

$x^2 + 4x - 21 = (x + 7)(x - 3)$

$x^2 - 9 = (x + 3)(x - 3)$

හරයන් හි කු.පො.ගු. $= \text{.....................}$

$\dfrac{3}{x^2+4x-21} + \dfrac{1}{x^2-9}$

$= \dfrac{3}{\text{.....................}} + \dfrac{1}{\text{.....................}}$

$= \dfrac{3(\text{.............})+1(\text{.............})}{\text{.....................}}$

$= \dfrac{\text{.........................}}{\text{.....................}}$

$= \dfrac{\text{.........................}}{\text{.....................}}$

15. $\dfrac{2}{x^2-6x+9} - \dfrac{3}{x^2-8x+15}$

$x^2 - 6x + 9 = (x - 3)^2$

$x^2 - 8x + 15 = (x - \text{....})(x - \text{....})$

හරයන් හි කු.පො.ගු. $= \text{.....................}$

$\dfrac{2}{x^2-6x+9} - \dfrac{3}{x^2-8x+15}$

$= \dfrac{2}{(x-3)^2} - \dfrac{1}{(\text{.........})(\text{.........})}$

$= \dfrac{2(\text{.............})-1(\text{.............})}{\text{.....................}}$

$= \dfrac{\text{.........................}}{\text{.....................}}$

$= \dfrac{\text{.........................}}{\text{.....................}}$

16. $\dfrac{3}{x^2+5x} + \dfrac{1}{2x^2+9x-5}$

$x^2 + 5x = \text{.............}$

$2x^2 + 9x - 5 = \text{.............}$

හරයන් හි කු.පො.ගු. $= \text{.....................}$

$\dfrac{3}{x^2+5x} + \dfrac{1}{2x^2+9x-5}$

$= \dfrac{3}{\text{.....................}} + \dfrac{1}{\text{.....................}}$

$= \dfrac{3(\text{.............})+1(\text{.............})}{\text{.....................}}$

$= \dfrac{\text{.........................}}{\text{.....................}}$

$= \dfrac{\text{.........................}}{\text{.....................}}$