

ಸರ್ಕಾರಿ ಪ್ರೌಢಶಾಲೆ, ರಾಯಲ್ಪಾಡು

ಬೀಜಪದಗಳ ಸಂಕಲನ ವ್ಯವಕಲನ

Addition and Subtraction of Algebraic expressions

$$\begin{aligned} & \boxed{x + 2x + 5x} \\ & = (1+2+5)x \\ & = 8x \end{aligned}$$

$$\begin{aligned} & \boxed{3x + 7x - 5x} \\ & = (3+7-5)x \\ & = (10-5)x = 5x \end{aligned}$$

$$\begin{aligned} & \boxed{2x^2+4x+3y^2-3x-2y+5y+2y^2+3x^2} \\ & = (2+3)x^2+(3+2)y^2+(4-3)x+(-2+5)y \\ & = 5x^2 + 5y^2 + x + 3y \end{aligned}$$

$$\begin{aligned} & \boxed{9x - 6x} \\ & = (9-6)x \\ & = 3x \end{aligned}$$

$$\begin{aligned} & \boxed{3x+2y+5x+7y} \\ & = (3+5)x+(2+7)y \\ & = 8x + 9y \end{aligned}$$

$$\begin{aligned} & \boxed{7a+5b+3c-2b+2a-2c+4c+5a+5b} \\ & = (7+2+5)a+(5-2+5)b+(3-2+4)c \\ & = 14a + 8b + 5c \end{aligned}$$

ಮೇಲಿನ ಉದಾಹರಣೆಗಳನ್ನು ಗಮನಿಸಿ, ಸರಿಯಾದ ಉತ್ತರ ತುಂಬಿ

Observe the above Examples, fill in the correct answer

$$x + 7x = \boxed{}x \quad 4y + 9y = \boxed{}y \quad 2w + 21w = \boxed{}w$$

$$6x - 2x = \boxed{}x \quad 7y - y = \boxed{}y \quad 12w - 7w = \boxed{}w$$

$$6x - 2x + 3x = \boxed{}x \quad 7y - y + 3y - 2y = \boxed{}y$$

$$2a + 7b + 5c + 2b + 4c - 5a - 2c + b = \boxed{}a + \boxed{}b + \boxed{}c$$

$$3x + 9x^2 + 5x^2 + 8x + 6x - 4x - 6x^2 = \boxed{}x^2 + \boxed{}x$$

$$7a^2 - 5b + 10b^2 + 8a - 5a^2 + 6b - 4a - 6b^2 = \boxed{}a^2 + \boxed{}b^2 + \boxed{}a + \boxed{}b$$

$$6m^3 + 5m - 2m^2 + 2m^3 - 3m + 7m^2 = \boxed{}m^3 + \boxed{}m^2 + \boxed{}m$$

$$7ab + 3bc + 5ac - 2bc - 5ab - 3ac = \boxed{}ab + \boxed{}bc + \boxed{}ac$$

ಅಶೋಕ್ ಕುಮಾರ್ ಡಿ.ಎಂ.

