

Warm Up Questions

1.  $3(5x^2 - 2x + 1) - (3x^2 + 2x - 5)$

2. 
$$\frac{5x^2 - 35x + 10}{5}$$

3.  $2(x - 5) - (x^2 - 3x + 2) - 5(x^2 - 2)$

4.  $(24x^2 - 48x + 72) \div 12$

$$1. \quad 3(5x^2 - 2x + 1) - 1(3x^2 + 2x - 5)$$

$$\boxed{5x^2} - \textcircled{6x} + \underline{\underline{3}} \quad \boxed{-3x^2} - \textcircled{2x} + \underline{\underline{5}}$$

$$= 12x^2 - 8x + 8$$

$$2. \quad \frac{5x^2 - 35x + 10}{5}$$

$$\begin{aligned} & \frac{5x^2}{5} - \frac{35x}{5} + \frac{+10}{5} \\ & = 1x^2 - 7x + 2 \end{aligned}$$

$$\begin{aligned} 3. \quad & 2(x-5) - 1(x^2-3x+2) - 5(x^2-2) \\ & \underline{\underline{2x-10}} \quad \underline{\underline{-1x^2}} \quad \underline{\underline{+3x}} \quad \underline{\underline{-2}} \quad \underline{\underline{-5x^2}} \quad \underline{\underline{+10}} \\ & = -6x^2 + 5x - 2 \end{aligned}$$

$$4. (24x^2 - 48x + 72) \div 12$$

$$\frac{24x^2}{12} - \frac{48x}{12} + \frac{72}{12}$$
$$= 2x^2 - 4x + 6$$