



Practice Questions

Grade 8
2019/2020

you must do this question in one of two ways:

- 1) if you do not know what to do, discuss it with me on the group*
- 2) if you have indeed completed it, or tried to do it, post a photo on the group.*

1) Subtract $7a^3 + 5a^2b - 3ab^2 + 8b^3$ from $a^2b - ab^2 + 6b^3 + 4a^3 - 3a^2b - 2b^3$.

$$-7a^2b + 2ab^2 - 4b^3 - 3a^3$$

2) Subtract the sum of $5p + q - 7r$ and $-p - 3q - 10r$ from the sum of $4p + 9q - 8r$ and $-p - 6q + 13r$.

$$-p + 22r - 4$$

3) Multiply $2 - 4a + 5a^2$ with $-3a^2$.

$$-6a^2 + 12a^3 - 15a^4$$





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Observe the hexagons made with match sticks.



- How many match sticks will be required to pack 10 hexagons? **51**
- Determine the general formula (rule) that will describe this pattern. Let x be the number of hexagons and y the number of match sticks **$y = 5x + 1$**

