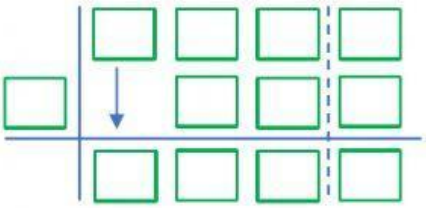
POLINOMIAL DIVISION USING SYNTHETIC METHOD

Instructions: Complete all the squares, the green ones are for coefficients and constants, the purple ones are for variables and the red ones are to write the symbols + or -. If you need to write a fraction you can use / (example: 3/5)

Watch the video and then divide using the synthetic method:

https://www.youtube.com/watch?v=x2NgrfaF_Jg

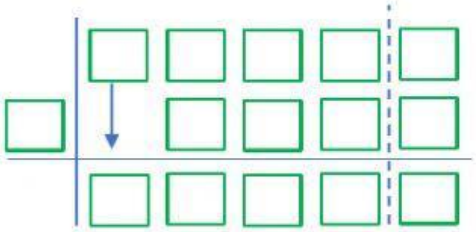
a) $(2x^3 - x^2 + 3) : (x + 1)$

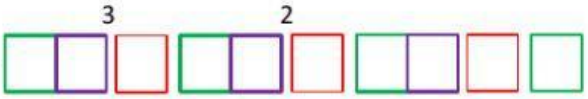


Quotient: $Q(x) =$ $\square\square^{2}\square\square\square\square$

Remainder: $R(x) =$ $\square$

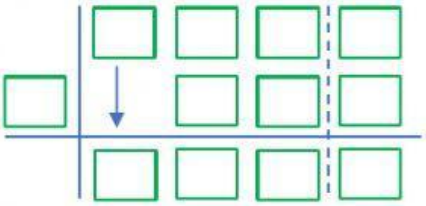
b) $(x^4 - 8x^2 - 9) : (x - 2) =$

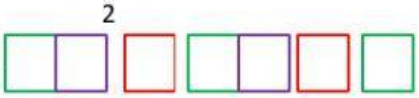


Quotient: $Q(x) =$ 

Remainder: $R(x) =$

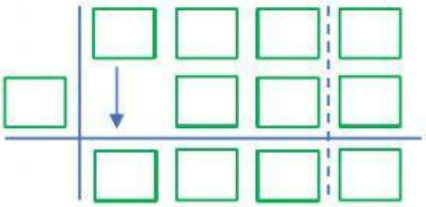
c) $(x^3 - 7x - 6) : (x - 3) =$

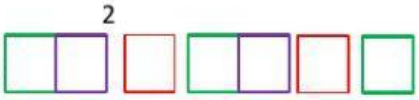


Quotient: $Q(x) =$ 

Remainder: $R(x) =$

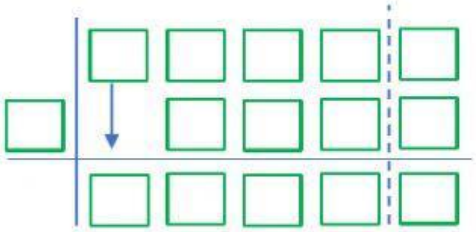
d) $(x^3 - 7x - 6) : (x + 1) =$

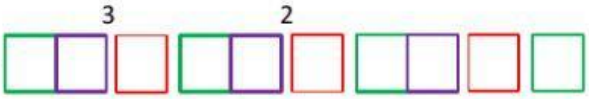


Quotient: $Q(x) =$ 

Remainder: $R(x) =$

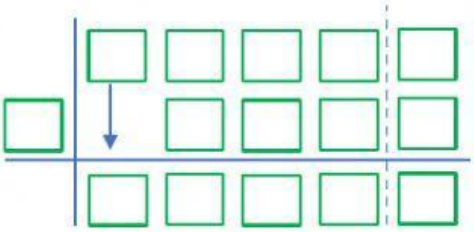
e) $(x^4 - 3x^3 + 5x - 8) : (x + 2) =$

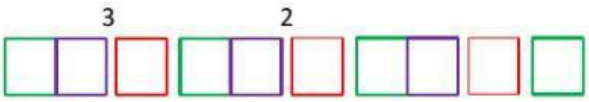


Quotient: $Q(x) =$ 

Remainder: $R(x) =$

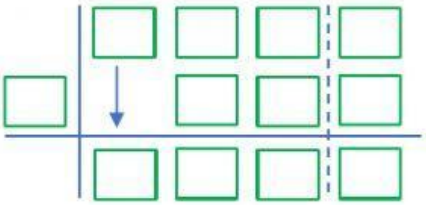
$f) \left(\frac{3}{5}x^4 - \frac{8}{5}x^3 + \frac{3}{2}x^2 - \frac{3}{2}x + 1\right) : (x - 1)$

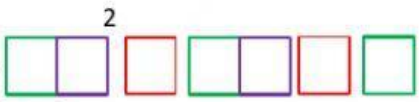


Quotient: $Q(x) =$ 

Remainder: $R(x) =$

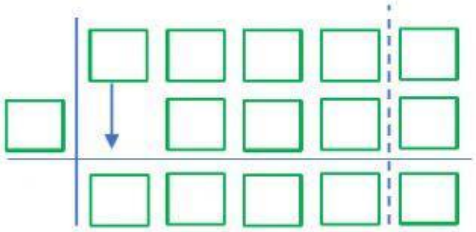
g) $(2x^3 - 11x^2 + 18x - 24) : (x - 4) =$

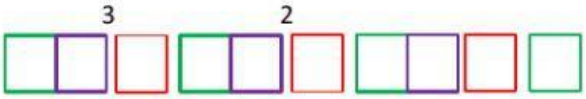


Quotient: $Q(x) =$ 

Remainder: $R(x) =$

h) $(x^4 - 5x^3 + 5x^2 + x - 6) : (x + 2) =$



Quotient: $Q(x) =$ 

Remainder: $R(x) =$