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## POLYNOMIAL LONG DIVISION WORKSHEET

- 1) The divisor in  $\frac{2x^2+1}{2x+2}$  is \_\_\_\_\_.
- 2) The dividend in  $\frac{2x^2+3}{2x+1}$  is \_\_\_\_\_.
- 3) Quotient = dividend  $\times$  divisor - reminder
  - a) True
  - b) False
- 4) On dividing a polynomial by another polynomial and reminder left if zero. It means the quotient is the factor of the reminder.
  - a) True
  - b) False
- 5)  $3x^3-5x^2+10x+4$  is a factor of
  - a)  $x-2$
  - b)  $x-1$
  - c)  $x+2$
  - d)  $3x+1$
- 6) Which one will leave no reminder when divided by  $8x+24$ 
  - a)  $x+2$
  - b)  $x+3$
  - c)  $x-2$
  - d)  $x-3$
- 7) Match the following arithmetic sequences with their common differences:

a- $x^2-1$	p- $3x+6$
b- $4x^2-49$	q- $4x+9$
c- $9x^2-36$	r- $x+1$
d- $16x^2-81$	s- $2x+7$
- 8) Find the quotient by long division method  $(2x^4-9x^3+21x^2-24x+9) \div (2x-3)$ .
- 9) Find the reminder when  $(6x^3-8x+32)$  is divided by  $(2x+4)$ .

10) Solve  $\frac{-5x^5-2}{5x+5}$  by long division method and write the dividend in the form of quotient, divisor and remainder.



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- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

1)	$(2x+2)$
2)	$(2x^2+3)$
3)	b)
4)	b)
5)	d)
6)	b)

7)	a-r b-s c-p d-q
8)	$(x^3 - 3x^2 + 6x - 3)$
9)	0
10)	$[(-x^4 + x^3 - x^2 + x - 1)(5x + 5) + 3]$