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POLYNOMIAL LONG DIVISION WORKSHEET

1) The divisor in $\frac{x^2+1}{x+1}$ is _____.
2) The dividend in $\frac{x^2+1}{3x+2}$ is _____.
3) Quotient = dividend × divisor + reminder
   a) True
   b) False
4) On dividing a polynomial by another polynomial and reminder left if zero. It means the dividend is the factor of the divisor.
   a) True
   b) False
5) $2x^2+6x+4$ is a factor of
   a) x+2
   b) 2x+3
   c) x-2
   d) x+1
6) Which one will leave no reminder when divided by 7x-14
   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- x+13
b- x^2-144	q- x-14
c- x^2-169	r- x-1
d- x^2-196	s- x-12

8) Find the quotient by long division method $(2x^4-9x^3+21x^2-22x+6) \div (2x-3)$.

9) Find the reminder when $(6x^3-8x+20)$ is divided by $(2x+4)$.

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

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"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- 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)	(x+1)
2)	(x^2+1)
3)	b) False
4)	a) True
5)	a) x+2
6)	c)x-2

7)	a-r b-s c-p d-q
8)	(x^3-3x^2+6x-2)
9)	(-12)
10)	[(-x+1)(5x+5) - 15]