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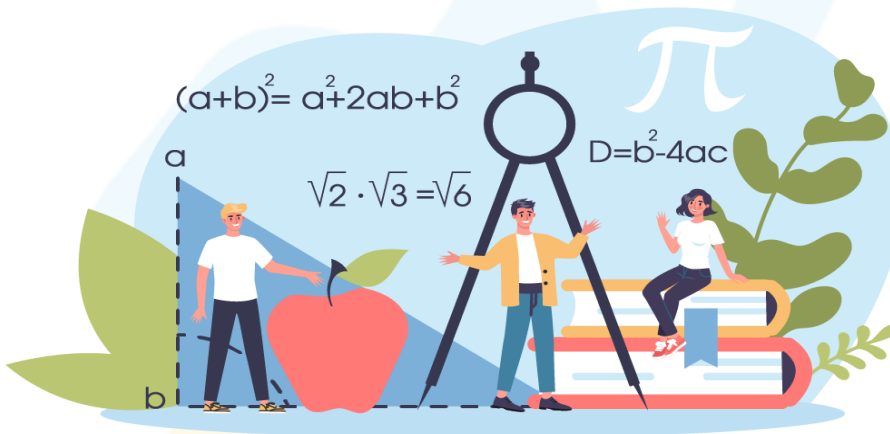
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POLYNOMIAL LONG DIVISION WORKSHEET

- 1) The divisor in $\frac{x^2+x-2}{x-1}$ is _____.
- 2) The dividend in $\frac{x^2+x-3}{x+2}$ is _____.
- 3) Dividend = quotient \times divisor + remainder
 - a) True
 - b) False
- 4) On dividing a polynomial by another polynomial and remainder left if zero. It means the remainder is the factor of the divisor.
 - a) True
 - b) False



- 5) $6x^2+9x-15$ is a factor of
 - a) $3x-4$
 - b) $3x+4$
 - c) $2x-5$
 - d) $2x+5$
- 6) Which one will leave no remainder when divided by $7x-21$
 - a) $x+2$
 - b) $x+3$
 - c) $x-2$
 - d) $x-3$

7) Match the following arithmetic sequences with their common differences:

a- $16x^2-9$

p- $7x-1$

b- $25x^2-1$

q- $2x-4$

c- $49x^2-1$

r- $4x+3$

d- $4x^2-16$

s- $5x+1$

8) Find the quotient by long division method $(2x^4-9x^3+21x^2-20x+3) \div (2x-3)$.

9) Find the remainder when $(6x^3-8x-30)$ 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 remainder.

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- Gary Schwartz

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- 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+x-3)
3)	a) True
4)	b) False
5)	d) $2x+5$
6)	d) $x-3$

7)	a-r b-s c-p d-q
8)	$(x^3 - 3x^2 + 6x - 1)$
9)	(-62)
10)	$[(-x-1)(5x+5) + 5]$