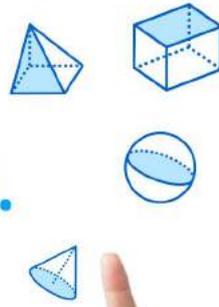


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## POLYNOMIAL LONG DIVISION WORKSHEET

- 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  $\times$  divisor + remainder
  - a) True
  - b) False
- 4) On dividing a polynomial by another polynomial and remainder 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 remainder 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 remainder 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 remainder.



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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)	$[(-x+1)(5x+5) - 15]$