Question 1

Put the following in standard form, find the degree and leading coefficient:

$$10a^4 - 8 - 3a^7$$

Question 2

Find the sum of the following polynomials

$$(m^2-3m+4)+(m^2-5m-1)$$

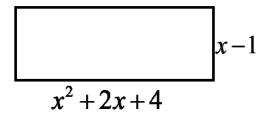
Question 3

Find the difference of the following polynomials

$$(10x^2+4x-5)-(3x^2+2x+1)$$

Question 4

Find the perimeter of the following figure



Question 5

Find the product:

$$(x-2)(3x+9)$$

Question 6

You learned in Physical Science that

Velocity=Mass x Acceleration. Find the missing value

$$\mathsf{Mass} = (2x+2)$$

Acceleration =
$$(x^2 - 4x + 5)$$

Velocity= ??

Question 7

Factor the following

Question 8

Factor out the GCF:

$$2x^2 + x - 3$$

$$16x^5y^3 - 32x^3y^4 + 64x^4y^5$$

Question 9

Find the product:

$$(y-2)(y^2-2y+3)$$

Question 10

Factor the following:

$$2x^2 + 15x + 27$$