Question 1:

Given

$$\frac{x}{5} - (1+x) = \frac{2}{3}$$

Multiply by 15



$$3x - 15 - 15x = 10$$

Collect like terms

$$-12x = 25$$

Divide by -12

$$x = \frac{-25}{12}$$

Question 2:

$$\left(x^2 - 1\right)\left(x + 4\right)$$

Expand the brackets

$$x^3 + 4x^2 - x - 4$$



Question 3:

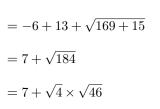
Given x = 3 and y = -13

$$-2x - y + \sqrt{y^2 + 5x} =$$

Substitute x=3 and y=-13

$$= -2(3) - (-13) + \sqrt{(-13)^2 + 5(3)}$$

Simplify



 $=7+2\sqrt{46}$



Q1: 100/100

> TMA: 100/100

Please let me know if you can see the following maths text:

$$\int 4x^3 - 5x + \beta \, dx$$