

Test

0.1)

1)

$$x^2(x+3) - 1(x+3)$$

$$(x^2-1)(x+3)$$

2)

$$4m^2 + 4m - 3$$

$$~~4m^2 + 6m - 4m - 3~~$$

$$4m^2 - 2m + 6m - 3$$

$$2m(2m-1) + 3(2m-1)$$

$$(2m+3)(2m-1)$$

3)

$$3x - 12x^3$$

$$3x(1-4x^2)$$

$$3x(1-2x)(1+2x)$$

+22

$$4) \quad x^3 - x^2 + 2x - 2$$

$$x^2(x-1) + 2(x-1)$$

$$(x-1)(x^2+2)$$

$$5) \quad \frac{x^2}{100} - 1$$

$$\left(\frac{x}{10}\right)^2 - (1)^2$$

$$\left(\frac{x}{10} - 1\right)\left(\frac{x}{10} + 1\right)$$

Q.2)

$$1) \quad (2, 5) = 1$$

$$2) \quad (2, -2) = 4$$

$$3) \quad (-3, -9) = 3$$

$$4) \quad (-3, 6) = 2$$

Q.3)

1) $(0,4) = y$ axis

2) $(-2,0) = x$ axis

Q.4) $y = 2x + 2$

Let $x = 0$ $y = 2 \times 0 + 2 = 2$
 $(0,2)$

$x = 1, y = 2 \times 1 + 2 = 4$
 $(1,4)$

$x = -1, y = 2 \times -1 + 2 = 0 = (-1,0)$

$x = 2, y = 2 \times 2 + 2 = 6$
 $(2,6)$

