Cours:

Polynôme 2<sup>m</sup> degré:

ax+bx+c

$$b = b^2 - 4ac$$
  $\rightarrow \bigcirc \Rightarrow pos de solvo dans il  $a < 0$   $n$  ou  $a > 0$   $n$$ 

$$-b = 0 \Rightarrow x = \frac{-b}{2a}$$

$$\Rightarrow \Rightarrow x_1 = \frac{-b + \sqrt{b}}{2a}$$

(x-x1)(x-x2)

· DS mod:

$$A) F(x) = (x-1)^2 - (x-1)$$

Note:

2) 
$$g(x) = 5x(-2x+6) - (x+2)(x-3)$$

$$=(x-3)(-10x-x-2)$$

2  $F(x) = -x^2 - 5x - 4$ 

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

$$=-(x+\frac{5}{2})^2+\frac{3}{4}$$

•  $(a+b)^2$  =  $a^2 + 2ab + b^2$ 

@ x2+6x+9=0

(3) 
$$x^2 + 6x + 40 = 1$$
(3)  $x^2 + 6x + 9 = 0$ 
(4)  $x^2 + 6x + 9 = 0$ 
(5)  $x^2 + 6x + 9 = 0$ 
(7)  $x^2 + 6x + 9 = 0$ 
(9)  $x^2 + 6x + 9 = 0$ 

$$b = b^2 - 4ac$$
  
= 36 - 4 x 9

2)
a) 
$$8(x) = -2x^2 - 3 = x = 20$$

$$2 = b^2 - 6ac$$

$$= +3^2 - 6x - 2 \times 20$$

$$= -6 + 6 \times 20$$

$$= -$$

$$(3) - x^2 - 2x + 8 = 0$$

$$b = b^2 - 4ac$$
= 4 + 4.8

050 danc 2 sol dons IR

0>0 danc 2 sof dans IR

$$K_1 = \frac{-6 + \sqrt{6}}{2a} = \frac{2 + 6}{-2} = -4$$

K2 = +2

$$co - (x + 4)(x-2) = 0$$