31/1/2020

$$586 \quad 2m^2 + 12m + 16 = 2(m^2 + 6m + 8) =$$

$$= 2(m+4)(m+2)$$

601 
$$z^4 - 4z^2 - 4z - 1 = |ax^2 + bx + c|$$

$$= z^4 - (4z^2 + 4z + 1) = |ax^2 + bx + c|$$

$$= z^4 - (2z^2 + 1)^2 = |ax^2 + bx + c|$$

$$= (2z^2 - (2z^2 + 1))(z^2 + (2z^2 + 1)) = |ax^2 + bx + c|$$

$$= (2z^2 - (2z^2 + 1))(z^2 + (2z^2 + 1)) = |ax^2 + bx + c|$$

$$= (2z^2 - (2z^2 + 1))(z^2 + (2z^2 + 1)) = |ax^2 + bx + c|$$

$$= (2z^2 - (2z^2 + 1))(z^2 + (2z^2 + 1)) = |ax^2 + bx + c|$$

$$= (2z^2 - (2z^2 + 1))(z^2 + (2z^2 + 1)) = |ax^2 + bx + c|$$

$$= (2z^2 - (2z^2 + 1))(z^2 + (2z^2 + 1)) = |ax^2 + bx + c|$$

$$= (2z^2 - (2z^2 + 1))(z^2 + (2z^2 + 1)) = |ax^2 + bx + c|$$

$$= (2z^2 - 2z^2 - 1)(z^2 + 1)^2$$

$$= (2z^2 - 2z^2 - 1)(z^2 + 1)^2$$

607 
$$x^6 + 7x^3 - 8 = (x^3 - 1)(x^3 + 8) =$$

$$= (x-1)(x^2+x+1)(x+2)(x^2-2x+4)$$

**620** 
$$4a^4 - 9a^2 + 5 =$$

$$S = -9$$
 => -4,-5

$$=4a^{4}-4a^{2}-5a^{2}+5=$$

$$=4a^{2}(a^{2}-1)-5(a^{2}-1)=$$

$$= (a^2 - 1)(4a^2 - 5) = (a - 1)(a + 1)(4a^2 - 5)$$

DIVISORI 18

11 ±2 ±3

±6 ±9

590 
$$x^3 - 4x^2 - 3x + 18$$

$$-1+> -1-4+3+18\neq 0$$

$$(x^2-6x+9)(x+2)=(x-3)^2(x+2)$$

$$606 \quad x^4 - 5x^2 - 36 =$$

$$=(x^2-9)(x^2+4)=(x-3)(x+3)(x^2+4)$$

**591** 
$$(k+1)^2 + 2(k+1) + 1 =$$

$$= [(k+1)+1]^{2} = (k+2)^{2}$$

$$609 \quad 4x^3 - xy^2 - 8x^3 - y^3 =$$

$$= \times (4 \times -4^{2}) - (8 \times 3 + 4^{3}) =$$

$$= \times (2x - y)(2x + y) - (2x + y)(4x^{2} - 2xy + y^{2}) =$$

= 
$$(2x+y)[x(2x-y)-(4x^2-2xy+y^2)]$$
 =

$$= (2x+y)(2x^2-xy-4x^2+2xy-y^2)=$$

$$=(2x+y)(-2x^2+xy-y^2)=$$

$$= -(2x+y)(2x^2-xy+y^2)$$