539
$$2x^2 - 2 - (x - 1)^2$$
 =

$$[(x-1)(x+3)]$$

$$= 2(x^2-1)^{-}(x-1)^2$$

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

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

$$2 \times -2 - (x^2 - 2x + 1) = 2 \times -2 - x^2 + 2x - 1 =$$

$$= x^{2}+2x-3 = (x+3)(x-1)$$

541
$$a^6 - a^5 - a^3 + a^2 = [a^2(a-1)^2(a^2 + a + 1)]$$

$$= a^{2}(a^{4} - a^{3} - a + 1) = a^{2}(a^{3}(a - 1) - (a - 1)) =$$

$$= \alpha^{2} (\alpha - 1) (\alpha^{3} - 1) = \alpha^{2} (\alpha - 1) (\alpha - 1) (\alpha^{2} + \alpha + 1) =$$

$$= a^{2} (a-1)^{2} (a^{2}+a+1)$$

$$543 (a^2+1)^2-4a^2 =$$

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

$$= (\alpha^{2} + 1 - 2\alpha)(\alpha^{2} + 1 + 2\alpha) = (\alpha - 1)^{2}(\alpha + 1)^{2}$$

552
$$(x^2 + y^4)(x - y) - 2x^2y^2 + 2xy^3 =$$

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

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

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

$$2x^2 - 3x - 2 - ax + 2a =$$

$$= 2x^{2} - 4x + x - 2 - a(x - 2) =$$

$$=2\times(\times-2)+(\times-2)-\alpha(\times-2)=$$

$$= (x-2)(2x+1-a)$$

641
$$ax^2 - a + x^2 + 2x - 3 =$$

$$= \alpha(x^{2}-1) + (x+3)(x-1) =$$

$$= a(x-1)(x+1) + (x+3)(x-1) =$$

$$= (x-1) \left[\alpha(x+1) + (x+3) \right] =$$

$$= (x-1)(ax+a+x+3)$$

644
$$x^5 + x^4 - x^3 + x^2 - 2x =$$

$$= \times (x^4 + x^3 - x^2 + x - 2) = [x(x+z)(x+1)(x-1)]$$

±1 ±2

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

$$= (x^{2}(x+2)+(x+2))(x-1) =$$

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