а) $ab + cb + ad + cd$;
б) $a^2 - 2ab + b^2 - c^2$;
в) $a^4 - 16b^4$;
г) $a^2 + 2ab + ac + b^2 + bc$;
д) $9y^2 - 6y + 1 - x^2$;
е) $x^4 + 4x^2 - y^2 + 6y - 5$.

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

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

ab+cb+ad+cd= a(b+d)+c(d+b)=(d+b)(a+c)
a^4-16b^4=(a^2)^2-(4b^2)^2=(a^2-4b^2)(a^2+4b^2)=(a^2-(2b)^2)(a^2+4b^2)=
(a-2b)(a+2b)(a^2+4b^2)
9y^2-6y+1-x^2=(3y)^2-2*3y*1+1^2-x^2=(3y-1)^2-x^2=((3y-1)-x)((3y-1)+x)=(3y-1-x)(3y-1+x)
a^2-2ab+b^2-c^2=(a-b)^2-c^2=((a-b)-c)((a-b)+c)=(a-b-c)(a-b+c)
a^2+2ab+ac+b^2+bc=(a+b)^2+c(a+b)=(a+b)((a+b)+c)=(a+b)(a+b+c)
x^4+4x^2-y^2+6y-5=(x^2)^2+2*2*x^2+2^2-2^2-y^2+6y-5=(x^2+2)^2-2^2-y^2+6y-5=
(x^2+2)^2-y^2+6y-9=(x^2+2)^2-(y^2-6y+9)=(x^2+2)^2-(y^2-2*3*y+3^2)=(x^2+2)^2-(y-3)^2=
((x^2+2)-(y-3))((x^2+2)+(y-3))=(x^2+2-y+3)(x^2+2+y-3)=(x^2+5-y)(x^2-1+y)