

а) $2a + 2b + ax + bx$;
в) $m^2 - mn + am - an$;
д) $ax - ya + x - y$;
ж) $a^3 + 5a^2 + 5a + 25$;

б) $ax - ay + 3x - 3y$;
г) $5a + 5b - ax - bx$;
е) $m^2 - mn - 2n + 2m$;
з) $x^4 - 3x^3 + 3x^2 - 9x$.

$$2a+2b+ax+bx = a(2+x)+b(2+x) = (2+x)(a+b)$$

$$ax-ay+3x-3y = x(3+a)-y(3+a) = (3+a)(x-y)$$

$$m^2-mn+am-an = a(m-n) + m(m-n) = (m-n)(a+m)$$

$$5a+5b-ax-bx = a(-x+5) + b(-x+5) = (-x+5)(a+b)$$

$$ax-ya+x-y = x(a+1) - y(a+1) = (a+1)(x-y)$$

$$m^2-mn-2n+2m = n(-m-2) + m(m+2) = -n(m+2)+m(m+2) = (m+2)(m-n)$$

$$a^3+5a^2+5a+25 = a^2(a+5) + 5(a+5) = (a+5)(a^2+5)$$

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