

+xy⁴+y⁵. (15) a³-2a²b+4ab²-8b³. (16) 27x³-18x²y+12xy²-8y³. (17) 8a³+12a²b+18ab²+27b³. (18) x³+3x²y+9xy²+27y³. (19) x⁶-x⁵+x⁴-x³+x²-x+1. (20) x³+2x²y+2xy²+y³. (21) a⁴-a⁶+2a²-2. (22) x²+2xy+y²-xz-yz+z². (23) a+b+c. (24) a+b-c-d. (25) x²+y²+z²-xy-xz-yz.

EXERCISE XIII.—(Page 18). A.—(1) a. (2) a+b-c. (3) a-b. (4) 2x. (5) a+a³. (6) -2b+2c. (7) 3a-b-c. (8) a+3b-4c. (9) 5a. (10) 4a. (11) x. (12) -x-2y+6z. (13) -5a. (14) 2a+4b. (15) 11x-36y. (16) 21a+b. (17) 2x-3y+12z. (18) -a²+8b²-9c². (19) -50c. (20) -a-10b+2c. (21) x+c. (22) x²-ax+b. (23) x²-(a-2b)x-2ab. (24) x²-px+q. (25) x²+ax-2b. (26) x²+bx+a². (27) x³-ax²+bx. (28) x⁴+(p-q)x²+pq. (29) px²+qx+r. (30) x²+(n+1)ax-a².

B.—(1) (ax-bx+cx)-(ay-by+cy); (ax-ay)-(bx-by)+(cx-cy). (2) (ax³-dx³)+(bx²-dx²)+(bx-cx-2x)+(7-c). (3) -(a²x-a²y)-(7a+ab)-(2x-3). (4) (ax⁴+3x⁴)+(bx²-8x²)+(3bx-9x)+7. (5) (6ax³-bx³)+(4bx²-2x²)+(cx-5x)+(ab-8). (6) (10ax³-8x³)+(6ax²-12x²)+(9x-3cx)+4. (7) (3cx⁵-2a²x⁶)+(3x⁴-4bx⁴)+5dx-4abc. (8) -(bx⁴+2a²x⁴)-(3bx³-4x³)-(3x²-ax²). (9) -(abx⁵-7x⁵)-(abcx³-8x³)-(3c²x-9ax). (10) -(cx³-a²x³)-(bx²-ax²+5x²). (11) -(3ax⁴-6b²x⁴+cx⁴+7x⁴)-(2bx+5c²x). (12) -(-5ax³-4cx³)-(-3ax²+6bx²-7cx²)-(-2ax+7bx). (13) (2a-3b)-(4c-5d)-(4e-3f); (2a-3b-4c)+(5d-4e+3f). (14) -(b+5c)+(6d-3e)+(4f+g); -(b+5c-6d)-(3e-4f-g). (15) -(3x-4y)-(2z-3a)+(2b-c); -(3x-4y+2z)+(3a+2b-c). (16) (4c-2d)+(3e+2x)-(y+5z); (4c-2d+3e)+(2x-y-5z). (17) -(2m-3n)+(4a-6b)-(5x-7y); -(2m-3n-4a)-(6b+5x-7y). (18) (3p+2q)-(4r+5m)+(3n-2a); (3p+2q-4r)-(5m-3n+2a).

EXERCISE XIV.—(Page 20). A.—(1) 3. (2) 2. (3) 9. (4) 7. (5) 11. (6) 7. (7) 2. (8) 2. (9) 3. (10) 4. (11) 9. (12) 56 $\frac{1}{2}$. (13) 2 $\frac{2}{3}$. (14) 9. (15) -4 $\frac{1}{4}$.