

$$(13) (x+y-z)(x^2+y^2+z^2-xy+xz+yz). \quad (14) (x-y+z)(x^2+y^2+z^2+xy-xz+yz). \quad (15) (x-y-z)(x^2+y^2+z^2+xy+xz-yz).$$

EXERCISE XLII.—(Page 44). A.—(1) $x+y$. (2) $x+y$. (3) a . (4) $2x-3y$. (5) $a^2b^2(a-b)$. (6) $x+y$. (7) $x+2y$. (8) $a(a-x)$. (9) $b(a+b)$. (10) $c-d$. (11) $y(x-1)$. (12) a^2+x^2 . (13) $x-5$. (14) $x-10$. (15) $x-12$. (16) $x+3$. (17) $x+2y$. (18) $a+3$. (19) $x+2$. (20) $x-3y$. (21) $3x+1$. (22) $x-3$. (23) $a+3b$. (24) $a(x+a)$.

B.—(1) $x^2-13x+5$. (2) a^2-3a+2 . (3) x^2-3x+7 . (4) $x-3$. (5) $a+1$. (6) $7x^2+3x-1$. (7) $x-1$. (8) $a-3$. (9) $3x-5a$. (10) None. (11) x^2+xy+y^2 . (12) x^2-2x+4 .

EXERCISE XLIII.—(Page 45). A.—(1) $\frac{1}{ax-1}$.

(2) $2(x-y)$. (3) $\frac{2a-c}{2a+c}$. (4) $\frac{5x}{3y}$. (5) $\frac{2(b+c)}{b^2}$.

(6) $\frac{x^2+x+1}{x^2-2x+1}$. (7) $\frac{x^2-ax+a^2}{x^2-a^2}$. (8) $\frac{b}{d}$. (9) $\frac{x}{x^2-2z^2}$.

(10) $\frac{x}{x+1}$. (11) $\frac{x}{2y}$. (12) $\frac{3x+5}{2x+3}$. (13) $\frac{a+b-c}{a+b+c}$.

(14) $\frac{4x^2+1}{5x^2+x+1}$. (15) $\frac{2a+3b}{2a}$. (16) $\frac{y}{bc}$. (17) $\frac{3a}{a+2}$.

(18) $\frac{xy}{3az}$. (19) $\frac{xy}{x-2}$. (20) $\frac{1-x}{1+y}$. (21) $\frac{x+3}{2}$.

(22) $\frac{x+1}{x+2}$.

B.—(1) $\frac{x+4}{x-2}$. (2) $\frac{x+1}{x-3}$. (3) $\frac{x^2-xy-y^2}{x^2+xy-y^2}$.

(4) $\frac{x-2}{x-3}$. (5) $\frac{x+1}{x-3}$. (6) $\frac{m+1}{m-1}$. (7) $\frac{x^2+2x+4}{x^2+x-2}$.