

C.

- (1.) $\sqrt{2(a+b)+3(c+d)}$. (2.) $(2a-b+c)^2$.
 (3.) $16x^m - 14x^n$.
 (4.) Multiply second expression by 2 and add to first, etc.
 (5.) $a^6 - a^5 - \frac{47}{4}a^4 + \frac{20a^3}{3} + \frac{107a^2}{3} - 4a + \frac{1}{9}$.
 (6.) $(3a+2)^2 (a-3)^2 (2a-1)^2$. (7.) $\left(\frac{a}{4} + 3 - \frac{2x}{3}\right)^2$.
 (8.) Multiply out and re-arrange, etc.
 (9.) $(x^2 - 2xy + y^2)^2$. (10.) $\left(\frac{a}{b} - \frac{b}{c} - \frac{c}{a}\right)^2$.

EXERCISE XIV.

DIFFERENCE OF SQUARES.

A.

- (1.) $(2x-3y)(2x+3y)$; $(12x-17y)(12x+17y)$;
 $(4x^2-1)(4x^2+1)$.
 (2.) $(2a-b-c)(2a-b+c)$; $(4x+y-z)(4x+y+z)$;
 $(3m+2n+p)(3m+2n-p)$.
 (3.) $(200)(198)$; $(x-y+z)(x+y-z)$;
 $(a-3b+c)(a-b-c)$.
 (4.) $(x^2+y^2+z^2+2xz)(x^2+y^2+z^2-2xz)$;
 $(a-b+x+y)(a-b-x-y)$.
 (5.) $(b+c-a+d)(b+c+a-d)(a+d-b+c)(a+d+b-c)$;
 $(a+b+c)(a+b-c)(c+a-b)(c-a+b)$.
 (6.) $(x^n-y^n)(x^n+y^n)$; $16(1+x)(1-x)$; $4(a+c)(b+d)$.
 (7.) $(x^2+y^2+z^2)(x^2+y^2+z^2-2xy-2xz-2yz)$.
 (8.) $15(x-2y)(x+2y)$; $3(9x^2-4y^2)(9x^2+4y^2)$;
 $(1-2ab^n)(1+2ab^n)$.
 (9.) $(3a-5b+4c)(-a+b-4c)$;
 $(a^2+a-b^2+b)(a^2+a+b^2-b)$.
 (10.) $(x+2z)(x-2y)$.

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B.

- (1.) $7x-5y+z$. (2.) $(x^2+y^2)^2 - z^4$.
 (3.) $(a^2+b^2+c^2+d^2)(a^2+b^2-c^2-d^2)$.
 (4.) Factor dividend. (5.) 840.

Apply difference of squares to 6, 7, 8, 9 and 10.