1. (Eexo76.tex)
$$\frac{3}{2(X-1)}+\frac{1}{2(X+1)}-\frac{2}{X}$$
2. (Efracrat13.tex) $b=\overline{a}$
3. (Efracrat3.tex)
$$a+\frac{b}{X-i}+\frac{c}{X+i}+\frac{d}{(X-j)^2}+\frac{e}{X-j}+\frac{f}{(X-\overline{j})^2}+\frac{g}{X-\overline{j}}$$
4. (Eexo73.tex)
$$X-4+\frac{10}{X+1}-\frac{10}{(X+1)^2}+\frac{5}{(X+1)^3}-\frac{1}{(X+1)^4}$$
5. (Efracrat22.tex)
$$F=\frac{\widetilde{A}(1)}{(X-1)^n}+\frac{\widetilde{A'}(1)}{(X-1)^{n-1}}+\frac{\widetilde{A^{(2)}}(1)}{2!(X-1)^{n-2}}+\cdots+\frac{\widetilde{A^{(n-1)}}(1)}{(n-1)!(X-1)}$$
6. (Eexo65.tex)
$$\frac{1}{2X}-\frac{1}{X-1}+\frac{1}{2(X-2)}$$
7. (Efracrat7.tex)
$$F=\frac{2}{X+i}+\frac{1}{X+1}$$
8. (Efracrat4.tex)
$$F=\sum_{i=1}^{n}\frac{1}{X-a_i}$$
9. (Efracrat21.tex)
$$U=X+1,\ V=-X,\ F=\frac{X+1}{X^2+X+1}-\frac{X}{X^2+1}$$
10. (Efracrat19.tex)
$$d=-b,\ f=ib,\ h=-ib$$
11. (Efracrat14.tex)
$$\frac{1}{X}-\frac{1}{X-1}+\frac{1}{(X-1)^2}$$
12. (Efracrat8.tex)
$$F=\frac{2}{X+i}+\frac{1}{X+1+i}$$
13. (Efracrat5.tex)
$$\sum_{k=0}^{n-1}\frac{\widetilde{A^{(k)}}(a)}{k!(X-a)^{n-k}}$$
14. (Efracrat2.tex)
$$aX+b+\frac{c}{(X+1)^4}+\frac{d}{(X+1)^3}+\frac{e}{(X+1)^2}+\frac{f}{X+1}+\frac{g}{X-1}$$
15. (Efracrat26.tex)
$$\frac{1}{3(X-1)^2}+\frac{2}{9(X-1)}-\frac{2}{9(X+2)}$$
16. (Efracrat20.tex)
$$\frac{\frac{1}{4}}{(X^2+1)^2}$$
17. (Efracrat28.tex)
$$\frac{x^3}{x^2-1}=\frac{8}{3}+\frac{4}{9}(x-2)+o((x-2)^2)$$
$$\frac{\frac{8}{3}}{(X-2)^2}+\frac{\frac{4}{9}}{X-2}+\frac{\frac{1}{2}}{X-1}+\frac{\frac{1}{18}}{X+1}$$
18. (Efracrat11.tex)
$$F=X^2+2X+3+\frac{1}{(X-1)^2}+\frac{4}{X-1}$$
19. (Efracrat6.tex) $\frac{\lambda}{\mu}$
20. (Efracrat23.tex)
$$\frac{-1}{X^4}+\frac{-1}{X^2}+\frac{\frac{1}{2}}{X-1}+\frac{-\frac{1}{2}}{X+1}$$
21. (Efracrat1.tex)
$$\frac{\widetilde{A}(a)}{\widetilde{B'}(a)(X-a)}$$
22. (Efracrat16.tex)
$$X+2+\frac{1}{X^2}+\frac{2}{X}+\frac{2}{(X-1)^2}+\frac{1}{X-1}$$
23. (Efracrat29.tex)
$$\frac{\frac{1}{1-t}}{1-X}+\frac{\frac{t}{t-1}}{1-tX}$$
24. (Efracrat9.tex)
$$F=X^2-2iX-3+\frac{1}{(X+i)^2}+\frac{4i}{X+i}$$
25. (Efracrat25.tex)
$$X+3-\frac{1}{X-1}+\frac{8}{X-2}$$
26. (Efracrat15.tex)
$$1-\frac{8}{X-1}+\frac{13}{X-2}$$
27. (Efracrat30.tex)
$$\frac{\frac{2}{3}}{(X+2)^2}-\frac{\frac{1}{9}}{X+2}+\frac{\frac{1}{9}}{X-1}$$
28. (Efracrat18.tex)
$$c=a,\ e=-a,\ g=-a$$
29. (Efracrat17.tex)
$$aX+b+\frac{c}{(X-1)^2}+\frac{d}{X-1}+\frac{e}{(X-i)^2}+\frac{f}{X-i}+\frac{g}{(X+1)^2}+\frac{h}{X+1}+\frac{k}{(X+i)^2}+\frac{l}{X+i}$$

30. (Efracrat27.tex)

$$X + 2 + \frac{1}{X^2} + \frac{2}{X} + \frac{2}{(X-1)^2} + \frac{1}{X-1}$$

31. (Efracrat12.tex)

$$a = b$$

32. (Efracrat24.tex)

$$\sum_{k=0}^{n-1} \frac{1}{X - z_k} \qquad \frac{n2^{n-1}}{2^n - 1}$$

33. (Efracrat10.tex)

$$F = X^2 - 2X + 3 + \frac{1}{(X+1)^2} - \frac{4}{X+1}$$