1. (Epolynom12.tex) $A \wedge B = X - 1$, $U = 1$, $V = -X$.
2. (Eexo285.tex) non
3. (Epolynom30.tex) $S_n + pS_{n+2} + qS_{n+3} = 0$
4. (Epolynom6.tex) 10
5. (Epolynom19.tex)
$$Q = X - 1 \qquad R = X + 1;$$
6. (Epolynom43.tex)
$$\widetilde{P}(a) + \widetilde{P'}(a)(X - a)$$
7. (Epolynom33.tex)
$$X^2 + X + 2$$
8. (Epolynom31.tex)
$$2\sigma_1^2 - 2\sigma_2$$
9. (Epolynom42.tex) $\sigma_1\sigma_2 - \sigma_3$ (on peut utiliser le polynôme dont x, y et z sont racines).
10. (Epolynom39.tex)
$$\sigma_1' = 2\sigma_1, \quad \sigma_2' = \sigma_2 + \sigma_1^2, \quad \sigma_3' = \sigma_1\sigma_2 - \sigma_3$$
11. (Eexo74.tex)
$$\sigma_1^2 - 2\sigma_2$$
12. (Epolynom34.tex) 5
13. (Epolynom24.tex) -3
14. (Epolynom13.tex) $A \wedge B = X + 1$, $U = 1$, $V = -X$.
15. (Eexo286.tex) oui
16. (Epolynom32.tex) La multiplicité de 1 est 2.
17. (Epolynom9.tex) 18
18. (Epolynom7.tex) 8
19. (Epolynom16.tex) non
20. (Eexo287.tex)
$$(X^2 + \sqrt{2}X + 1)(X^2 - \sqrt{2}X + 1)$$
21. (Eexo288.tex)
$$(X^2 + 1)(X - 1)(X + 1)$$
22. (Epolynom37.tex) solutions -1, i, $2i$.
23. (Epolynom21.tex)
$$Q = X + 1 \qquad R = X^2 + 1;$$
24. (Epolynom15.tex) $A \wedge B = 1$, $U = \frac{1}{12}X + \frac{1}{4}$, $V = -\frac{1}{12}X - \frac{1}{6}$.
25. (Epolynom41.tex) Quotient : $X + 3$.
26. (Epolynom23.tex)
$$\frac{1}{2}e^{\theta}, \frac{1}{2}e^{-\theta}$$
27. (Epolynom2.tex) 6
28. (Epolynom22.tex)
$$\frac{1}{2}e^{i\theta}, \frac{1}{2}e^{-i\theta}$$
29. (Epolynom3.tex) -2
30. (Epolynom28.tex) quotient : $X + 2$. reste : -5.
31. (Epolynom11.tex) $\sigma_1^3 - 3\sigma_1\sigma_2 + 3\sigma_3$
32. (Eexo289.tex)
$$(X^2 + X + 1)(X^2 - X + 1)$$
33. (Epolynom8.tex) $+8$
34. (Epolynom18.tex)
$$Q = X + 1 \qquad R = X + 1$$
35. (Epolynom38.tex)
$$\sigma_1' = \sigma_2, \quad \sigma_2' = \sigma_1\sigma_3, \quad \sigma_3' = \sigma_3^2$$
36. (Epolynom20.tex)
$$Q = X + 1 \qquad R = X - 1;$$
37. (Epolynom1.tex) 3
38. (Epolynom29.tex) $S_{n+3} + pS_{n+1} + qS_n = 0$
39. (Eexo290.tex)
$$(X^2 + \sqrt{3}X + 1)(X^2 - \sqrt{3}X + 1)$$
40. (Eexo141.tex)
$$(X^2 - 2\cos\alpha X + 1)(X^2 + 2\cos\alpha X + 1)$$
41. (Epolynom35.tex) somme des inverses des racines 0
42. (Epolynom40.tex) 1 est une racine de multiplicité 3.
43. (Epolynom25.tex) quotient : 1. reste : $X^2 + X - 3$.
44. (Epolynom26.tex)
$$x^7 = -x^3 + x + 1$$
45. (Epolynom5.tex) 14
46. (Epolynom36.tex) Quotient $X + 1$, reste $3X^2 + 2X + 1$.
47. (Epolynom17.tex)
$$\frac{2\pi}{9}, \frac{8\pi}{9}, \frac{14\pi}{9}, \frac{4\pi}{9}, \frac{10\pi}{9}, \frac{16\pi}{9}$$
48. (Epolynom4.tex) -3
49. (Epolynom27.tex)
$$U = X + 1, \quad V = -X^2 - X + 1$$
50. (Epolynom14.tex) $A \wedge B = X - 2$, $U = \frac{1}{2}$, $V = -\frac{1}{2}$.
51. (Eexo142.tex)
$$(X^2 - 2\sin\alpha X + 1)(X^2 + 2\sin\alpha X + 1)$$
52. (Epolynom10.tex) $\sigma_1^2 - 2\sigma_2$