

les petits exos du mercredi

FACTORISATION

1. (ATS2021) factoriser $f(t) = 16\cos^2(\frac{3}{2}t)\sin^2(\frac{t}{2}) + 16\sin^2(\frac{3}{2}t)\sin^2(\frac{t}{2})$
2. (ATS2021) factoriser $P(X) = -X^3 + 3X + 2$
3. (ATS2020) factoriser $P(X) = -X^3 + 2X^2 + aX - 2a$
4. (ATS2019) factoriser $x(t) = -3\sin(t) + 6\cos^2(t)\sin t$
5. (ATS2019) factoriser $P(X) = X^4 - 2X^2 + 1$
6. (ATS2018) factoriser $f(x, y) = x^3 + y^3 + x^2y + xy^2 - 6x - 6y$
indication : si $x = -y$, alors $f(x, y) = 0$, donc on peut factoriser par $x + y$.
7. (ATS2017) factoriser $f(x, y) = (x^2 + y^2 - 3)^2 + 4y^2 - 8$ par $(x - 1)^2 + y^2 - 2$
8. (ATS2017) factoriser $P(X) = X^4 - 2X^3 + 2X - 1$
9. (ATS2016) factoriser $P(X) = -X^3 + X^2 + 2X$
10. (ATS2015) factoriser $P(X) = -X^3 - 6X^2 - 11X - 6$