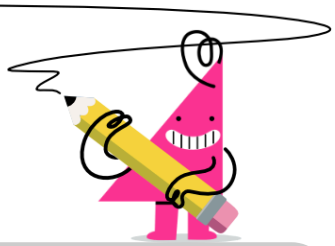
Name

Factor Polynomials (Order 4) - As Quadratic (With Hint), Coefficient N



1

$49r^4 + 70r^2 + 16$

Factor this higher order polynomial

hint:

$q^2 + 10q + 16$

$q = 7r^2$

A $(7r^2 + 2)(7r^2 + 8)$

B $(49r^2 + 2)(1649r^2 - 8)$

2

$16y^4 - 52y^2 + 40$

Factor this higher order polynomial

hint:

$p^2 - 13p + 40$

$p = 4y^2$

A $(40y^2 - 8)(y^2 + 5)$

B $(4y^2 - 8)(4y^2 - 5)$

3

$36m^4 - 4$

Factor this higher order polynomial

hint:

$t^2 - 4$

$t = 6m^2$

A $(36m^2 + 6)(36m^2 - 9)$

B $(6m^2 + 2)(6m^2 - 2)$

4

$16m^4 + 32m^2 + 15$

Factor this higher order polynomial

hint:

$q^2 + 8q + 15$

$q = 4m^2$

A $(4m^2 + 5)(4m^2 + 3)$

B $(15m^2 + 5)(m^2 - 3)$

5

$25w^4 - 49$

Factor this higher order polynomial

hint:

$q^2 - 49$

$q = 5w^2$

A $(25w^2 - 7)(25w^2 - 7)$

B $(5w^2 + 7)(5w^2 - 7)$

6

$64r^4 - 104r^2 + 36$

Factor this higher order polynomial

hint:

$m^2 - 13m + 36$

$m = 8r^2$

A $(8r^2 - 4)(8r^2 - 9)$

B $(r^2 - 4)(64r^2 + 9)$

7

$36t^4 - 84t^2 + 48$

Factor this higher order polynomial

hint:

$p^2 - 14p + 48$

$p = 6t^2$

A $(6t^2 - 6)(6t^2 - 8)$

B $(t^2 - 6)(48t^2 + 8)$

8

$25r^4 + 5r^2 - 30$

Factor this higher order polynomial

hint:

$w^2 + 1w - 30$

$w = 5r^2$

A $(25r^2 - 5)(25r^2 - 6)$

B $(5r^2 - 5)(5r^2 + 6)$