

Honors Math 3

Factoring

Factor.

1. $2y^2 - 18$

2. $30 + r - r^2$

3. $100a^2 - 4b^2$

4. $y^2 + 19y - 42$

5. $50 + 27x + x^2$

6. $100 + 29y + y^2$

7. $3y^2 - 8y + 5$

8. $7p^2 - 5p - 2$

9. $6x^2 - 5x + 1$

10. $2p^2 - 9p - 18$

11. $4 - 5p - 6p^2$

12. $14 - 15a + 3a^2$

13. $85 - 22p^2 + p^4$

14. $a^6 + 36a^3 + 180$

15. $4y^4 + 3y^2 - 1$

16. $n^2 - 7nr - 8r^2$

17. $h^2k^2 - 7hk + 6$

18. $c^2 - 3cd - 40d^2$

19. $k^8 - 13k^4y^2 + 30y^4$

20. $(a - 3)^2 + 10(a - 3) + 9$

21. $3(r - 2)^2 + 7(r - 2) + 2$

22. $4(c + 2)^2 + 5(c + 2) - 6$

23. $400k^2 - 121$

24. $225x^2 - y^2$

25. $m^2 - 144n^2$

26. $a^2b^2 - c^2d^2$

27. $x^4 - 49$

28. $1 - 25b^8$

29. $81 - 25m^{20}$

30. $x^{20} - 81$

31. $49 - (x + 4)^2$

32. $x^3 + 1$

33. $y^3 + 27$

34. $a^3 + 8$

35. $m^3 + 64$

36. $c^3 - 8$

37. $125 - y^3$

38. $k^3 - 216$

39. $27 - 64y^3$

40. $8x^3 + y^3$

41. $x^{2n} - x^n - 6$

42. $10 + 3a^x - a^{2x}$

43. $r^{2u} - 9r^u + 14$

44. $m^{8n} - 7m^{4n} + 6$

45. $10c^{2d} - 9c^d + 2$

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| <p>1.
Answer: $2(y - 3)(y + 3)$
CodePath: EAS.ALG.II.1</p> <p>2.
Answer: $(6 - r)(5 + r)$
CodePath: EAS.ALG.II.11</p> <p>3.
Answer: $4(5a - b)(5a + b)$
CodePath: EAS.ALG.II.11</p> <p>4.
Answer: $(y + 21)(y - 2)$
CodePath: EAS.ALG.II.24</p> <p>5.
Answer: $(25 + x)(2 + x)$
CodePath: EAS.ALG.II.37</p> <p>6.
Answer: $(25 + y)(4 + y)$
CodePath: EAS.ALG.II.83</p> <p>7.
Answer: $(3y - 5)(y - 1)$
CodePath: EAS.ALG.II.105</p> <p>8.
Answer: $(7p + 2)(p - 1)$
CodePath: EAS.ALG.II.106</p> <p>9.
Answer: $(6x + 1)(x - 1)$
CodePath: EAS.ALG.II.111</p> <p>10.
Answer: $(2p + 3)(p - 6)$
CodePath: EAS.ALG.II.119</p> <p>11.
Answer: $(4 + 3p)(1 - 2p)$
CodePath: EAS.ALG.II.125</p> <p>12.
Answer: prime
CodePath: EAS.ALG.II.131</p> <p>13.
Answer: $(17 - p^2)(5 - p^2)$
CodePath: EAS.ALG.II.154</p> <p>14.
Answer: $(a^3 + 30)(a^3 + 6)$
CodePath: EAS.ALG.II.158</p> | <p>15.
Answer: $(4y^2 - 1)(y^2 + 1)$
CodePath: EAS.ALG.II.161</p> <p>16.
Answer: $(n + r)(n - 8r)$
CodePath: EAS.ALG.II.170</p> <p>17.
Answer: $(hk - 1)(hk - 6)$
CodePath: EAS.ALG.II.172</p> <p>18.
Answer: $(c + 5d)(c - 8d)$
CodePath: EAS.ALG.II.175</p> <p>19.
Answer: $(k^4 - 10y^2)(k^4 - 3y^2)$
CodePath: EAS.ALG.II.186</p> <p>20.
Answer: $(a + 6)(a - 2)$
CodePath: EAS.ALG.II.207</p> <p>21.
Answer: $r(3r - 5)$
CodePath: EAS.ALG.II.209</p> <p>22.
Answer: $(4c + 5)(c + 4)$
CodePath: EAS.ALG.II.211</p> <p>23.
Answer: $(20k - 11)(20k + 11)$
CodePath: EAS.ALG.IJ.62</p> <p>24.
Answer: $(15x - y)(15x + y)$
CodePath: EAS.ALG.IJ.78</p> <p>25.
Answer: $(m - 12n)(m + 12n)$
CodePath: EAS.ALG.IJ.84</p> <p>26.
Answer: $(ab - cd)(ab + cd)$
CodePath: EAS.ALG.IJ.107</p> <p>27.
Answer: $(x^2 - 7)(x^2 + 7)$
CodePath: EAS.ALG.IJ.121</p> |
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28.
 Answer: $(1 - 5b^4)(1 + 5b^4)$
 CodePath: EAS.ALG.I.J.125
29.
 Answer: $(9 - 5m^{10})(9 + 5m^{10})$
 CodePath: EAS.ALG.I.J.129
30.
 Answer: $(x^{10} + 9)(x^5 + 3)(x^5 - 3)$
 CodePath: EAS.ALG.I.J.171
31.
 Answer: $(3 - x)(11 + x)$
 CodePath: EAS.ALG.I.J.174
32.
 Answer: $(x + 1)(x^2 - x + 1)$
 CodePath: EAS.ALG.I.N.1
33.
 Answer: $(y + 3)(y^2 - 3y + 9)$
 CodePath: EAS.ALG.I.N.2
34.
 Answer: $(a + 2)(a^2 - 2a + 4)$
 CodePath: EAS.ALG.I.N.3
35.
 Answer: $(m + 4)(m^2 - 4m + 16)$
 CodePath: EAS.ALG.I.N.4
36.
 Answer: $(c - 2)(c^2 + 2c + 4)$
 CodePath: EAS.ALG.I.N.8
37.
 Answer: $(5 - y)(25 + 5y + y^2)$
 CodePath: EAS.ALG.I.N.19
38.
 Answer: $(k - 6)(k^2 + 6k + 36)$
 CodePath: EAS.ALG.I.N.24
39.
 Answer: $(3 - 4y)(9 + 12y + 16y^2)$
 CodePath: EAS.ALG.I.N.40
40.
 Answer: $(2x + y)(4x^2 - 2xy + y^2)$
 CodePath: EAS.ALG.I.N.46
41.
 Answer: $(x^n + 2)(x^n - 3)$
 CodePath: EAS.ALG.I.O.13
42.
 Answer: $(5 - a^x)(2 + a^x)$
 CodePath: EAS.ALG.I.O.14

43.
 Answer: $(r^u - 7)(r^u - 2)$
 CodePath: EAS.ALG.I.O.16
44.
 Answer: $(m^{4n} - 6)(m^{4n} - 1)$
 CodePath: EAS.ALG.I.O.19
45.
 Answer: $(5c^d - 2)(2c^d - 1)$
 CodePath: EAS.ALG.I.O.22