

A2.A.7: Factoring the Difference of Perfect Squares 2: Factor polynomial expressions completely using common factor extraction, difference of perfect squares, quadratic trinomials

1 Factor: $x^2 + 2xy + y^2 - 4$

2 Factor: $a^4 + a^2 + 1$

3 Factor: $x^4 + x^2y^2 + y^4$

4 Factor: $16x^4 + 16x^2y^2 + 16y^4$

5 Factor: $x^4 + 4x^2 + 16$

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1 ANS:

$$(x+y+2)(x+y-2)$$

PTS: 2 REF: 019105al

2 ANS:

$$(a^2+a+1)(a^2-a+1)$$

PTS: 2 REF: 069707al

3 ANS:

$$(x^2+y^2+xy)(x^2+y^2-xy)$$

PTS: 4 REF: 019306al

4 ANS:

$$16(x^2+y^2+xy)(x^2+y^2-xy)$$

PTS: 2 REF: 099403al

5 ANS:

$$(x^2+2x+4)(x^2-2x+4)$$

PTS: 2 REF: 069404al