

A.A.19: Factoring the Difference of Perfect Squares 3: Identify and factor the difference of two perfect squares

1 Factor: $x^2 - 36$

2 Factor: $9 - x^2$

3 Factor: $16x^2 - 9$

4 Factor: $3a^2 - 3$

5 Factor: $4x^3 - 9x$

6 Factor: $12a^2 - 27b^2$

7 Factor: $9x^2 - y^2$

8 Factor: $28a^2 - 7b^2$

9 Factor: $6a^2 - 6b^2$

10 Factor: $8a^3 - 32ab^2$

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Answer Section

1 ANS:

$$(x + 6)(x - 6)$$

PTS: 2

REF: 019604al

2 ANS:

$$-(x + 3)(x - 3)$$

PTS: 2

REF: 119404al

3 ANS:

$$(4x + 3)(4x - 3)$$

PTS: 4

REF: 039404al

4 ANS:

$$3(a + 1)(a - 1)$$

PTS: 2

REF: 030501al

5 ANS:

$$x(2x + 3)(2x - 3)$$

PTS: 2

REF: 019703al

6 ANS:

$$3(2a + 3b)(2a - 3b)$$

PTS: 4

REF: 069303al

7 ANS:

$$(3x + y)(3x - y)$$

PTS: 2

REF: 019506al

8 ANS:

$$7(2a + b)(2a - b)$$

PTS: 3

REF: 069607al

9 ANS:

$$6(a + b)(a - b)$$

PTS: 2

REF: 099607al

10 ANS:

$$8a(a + 2b)(a - 2b)$$

PTS: 4

REF: 069503al