

Name: _____

- 1 The greatest common factor of $4a^2b$ and $6ab^3$ is
080818a (1) $2ab$ (3) $12ab$
(2) $2ab^2$ (4) $24a^3b^4$
- 2 If $3x$ is one factor of $3x^2 - 9x$, what is the other factor?
060421a (1) $3x$ (3) $x - 3$
(2) $x^2 - 6x$ (4) $x + 3$
- 3 If one factor of $56x^4y^3 - 42x^2y^6$ is $14x^2y^3$, what is the other factor?
060318a (1) $4x^2 - 3y^3$ (3) $4x^2y - 3xy^3$
(2) $4x^2 - 3y^2$ (4) $4x^2y - 3xy^2$
- 4 Which expression is a factor of $x^2 + 2x - 15$?
010004a (1) $(x - 3)$ (3) $(x + 15)$
(2) $(x + 3)$ (4) $(x - 5)$
- 5 Which expression is a factor of $n^2 + 3n - 54$?
060206a (1) $n + 6$ (3) $n - 9$
(2) $n^2 + 9$ (4) $n + 9$
- 6 What are the factors of $x^2 - 5x + 6$?
010814a (1) $(x + 2)$ and $(x + 3)$ (3) $(x + 6)$ and $(x - 1)$
(2) $(x - 2)$ and $(x - 3)$ (4) $(x - 6)$ and $(x + 1)$
- 7 What are the factors of $x^2 - 10x - 24$?
010318a (1) $(x - 4)(x + 6)$ (3) $(x - 12)(x + 2)$
(2) $(x - 4)(x - 6)$ (4) $(x + 12)(x - 2)$
- 8 Factored completely, the expression $2y^2 + 12y - 54$ is equivalent to
060623a (1) $2(y + 9)(y - 3)$ (3) $(y + 6)(2y - 9)$
(2) $2(y - 3)(y - 9)$ (4) $(2y + 6)(y - 9)$
- 9 Factored completely, the expression $2x^2 + 10x - 12$ is equivalent to
080806ia (1) $2(x - 6)(x + 1)$ (3) $2(x + 2)(x + 3)$
(2) $2(x + 6)(x - 1)$ (4) $2(x - 2)(x - 3)$
- 10 Factor completely: $3x^2 + 15x - 42$
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