ADDING POLYNOMIALS

1. $(8y^2 - 4y + 5) + (y^2 + 5y - 3)$
2. $(3x^2 + 4x - 10) + (4x^2 + 2x - 7)$
3. Add $(2x + 5)$ and $(3x-6)$ and $(5x - 3)$.
4. Find the sum of $(-7x^5 - x^3 + 4)$ and $(2x^3 + 12x^5 - 5)$

ADDING POLYNOMIALS ANSWERS

1. $9y^2 + y + 2$
2. $7x^2 + 6x - 17$
3. $10x - 4$
4. $5x^5 + x^3 - 1$

SUBTRACTING POLYNOMIALS

1. $(9x^2 - 6x + 7) - (4x^2 - 6x + 1)$
2. $(-4x^2 - 8x - 5) - (3x^2 - 2x - 3)$
3. Subtract $(5x^3 + 7x^2 + 6)$ from $(8x^3 + 5x^2 - 9)$
4. From $(7x^4 - 8x^2)$, subtract $(4x^4 + x^2)$

SUBTRACTING POLYNOMIALS ANSWERS

1. $5x^2 + 6$
2. $-7x^2 - 6x - 2$
3. $3x^3 - 2x^2 - 15$
4. $3x^4 - 9x^2$

Factor out the GCF.

1. $15x^2 - 35$
2. $18x^4 - 3x^3 + 9x^2$
3. $28a^4 + 7a^5 + 14a^6$
4. $2g^3 - 5g^4 + 6g^7$

FACTOR OUT THE GCF ANSWERS

1. $5\left(3x^2 - 7\right)$
2. $3x^2\left(6x^2 - x + 3\right)$
3. $7a^4\left(4 + a + 2a^2\right)$
4. $g^3\left(2 - 5g + 6g^4\right)$

MULTIPLYING POLYNOMIALS

1. $4(2x^3 - 6x^2 + 7)$
2. $6x(x^2 + 5x - 9)$
3. $6s^3(7s^3 + 8s^2 + s)$
4. $7xy(7x^3y^2 + 6xy^7)$

MULTIPLYING POLYNOMIALS ANSWERS

1. $8x^3 - 24x^2 + 28$
2. $6x^3 + 30x^2 - 54x$
3. $42s^6 + 48s^5 + 6s^4$
4. $49x^4y^3 + 42x^2y^8$

MULTIPLYING BINOMIALS

1. $(x + 8)(x + 4)$
2. $(w - 6)(w - 7)$
3. $(y + 3)(y - 9)$
4. $(2x + 1)(3x + 6)$

MULTIPLYING BINOMIALS ANSWERS

1. $x^2 + 12x + 32$
2. $w^2 - 13w + 42$
3. $y^2 - 6y - 27$
4. $6x^2 + 15x + 6$

MULTIPLYING BINOMIALS

1. $(x - 9)(x + 9)$
2. $(b + 5)(b - 5)$
3. $(m - 6)(m + 6)$
4. $(x + 2)(x - 2)$

MULTIPLYING BINOMIALS ANSWERS

1. $x^2 - 81$
2. $b^2 - 25$
3. $m^2 - 36$
4. $x^2 - 4$

FACTOR

1. $x^2 - 9$
2. $s^2 - 36$
3. $25x^2 - 49y^2$
4. $64 - x^2$

FACTOR ANSWERS

1. $(x-3)(x+3)$
2. $(s-6)(s+6)$
3. $(5x-7y)(5x+7y)$
4. $(8-x)(8+x)$

FACTOR

1. $x^2 + 8x + 16$
2. $b^2 - 2b - 3$
3. $x^2 - 9x + 20$
4. $x^2 + 5x - 14$

FACTOR ANSWERS

1. $(x + 4)(x + 4)$
2. $(b - 3)(b + 1)$
3. $(x - 4)(x - 5)$
4. $(x + 7)(x - 2)$

FACTOR COMPLETELY

1. $2n^2 - 8n - 42$
2. $5c^2 + 15c - 50$
3. $3x^2 + 21x + 36$
4. $9x^2 + 27x - 36$

FACTOR ANSWERS

1. $2(x-7)(x+3)$
2. $5(c+5)(c-2)$
3. $3(x+4)(x+3)$
4. $9(x+4)(x-1)$