Factor the monomials

1. $25x^2 = 5 \cdot 5 \cdot x \cdot x$
2. $81a = 3 \cdot 3 \cdot 3 \cdot 3a$
3. $78x^3 = 2 \cdot 3 \cdot 13 \cdot x \cdot x \cdot x$

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Monomial

Factoring using the Distributive Property

Monomial -

$30x^2 + 12x^1$

$6x(5x+2)$

$15a^1b^2 - 25a^1b^1c$

$5ab(3b-5c)$

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$18x^2y + 9x^3y^2 + 27xy^3$

$9xy(2x + x^2y + 3y^2)$

① $9x + 15$ $3(3x+5)$

② $42xyz - 12x^2y^2 + 3x^3y^3$

$3xy(14z - 4xy + x^2y^2)$

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$3a^2b^1 - 6a^2b^2$

$3a^2b(1-2b)$

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

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$x + x^2y + x^3y^2$

$x(1 + xy + x^2y^2)$

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$(3x^3 + x^2) + (6x + 2)$

$x^2(3x+1) + 2(3x+1)$

$(3x+1)(x^2+2)$

$(x^2+2)(3x+1)$

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$12x+9y = 3(4x+3y)$

11. $6y^3-21y^2-4y+14$

$3y^2(\quad)-2(\quad)$

$(\quad)(\quad)$

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$7b^2+42b$

$7b(b+6)$

$7b^2 = 7 \cdot b \cdot b$

$42b = 7 \cdot 6 \cdot b$

$8s^3+24s^2q$

$8s^2(s+3q)$

$8s^3 = 8 \cdot s \cdot s \cdot s$

$24s^2q = 8 \cdot 3 \cdot s \cdot s \cdot q$

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$12x+9y = 3(4x+3y)$

$15m^2n-27mn^2$

$3mn(5m-9n)$

$12x = 2 \cdot 2 \cdot 3 \cdot x$

$9y = 3 \cdot 3 \cdot y$

$15m^2n = 3 \cdot 5 \cdot m \cdot m \cdot n$

$27mn^2 = 3 \cdot 3 \cdot 3 \cdot m \cdot n \cdot n$

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11. $(6y^3-21y^2)(-4y+14)$

$3y^2(2y-7)-2(2y-7)$

$(2y-7)(3y^2-2)$

Factoring by grouping

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