Key

MATH 100
Review on Factoring

Factor each polynomial completely.

(1) $5x^2 - 10x$

$5x(x-2)$

(2) $6x^2y^2 + 12xy^2 + 12y^2$

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

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

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

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

(4) $a^2 + 2a - 24$

$(a-4)(a+6)$

(5) $4b^2 - 28b + 49$

$(2b-7)(2b-7)$

OR

$(2b-7)^2$

(6) $3m^3 + 27m$

$3m(m^2+9)$

(7) $ax - ay + bx - by$

$(ax-ay)+(bx-by)$

$a(x-y)+b(x-y)$

$(x-y)(a+b)$

(8) $6b^2 - 7b - 5$

$(2b+1)(3b-5)$

(9) $2p^3 - 16$

$2(p^3-8)$

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

(10) $2a^2 - 13a + 15$

$(a-5)(2a-3)$