Regents Exam Questions A.A.20: Factoring Polynomials 3 www.jmap.org

A.A.20: Factoring Polynomials 3: Factor algebraic expressions completely, including trinomials with a lead coefficient of one (after factoring a GCF)

1	Factor: $ab^2 - ab$	10	Factor: $6+x-x^2$
2	Factor: $x^2 - 10x + 21$	11	Factor: $2a^2 - 10a - 28$
3	Factor: $a^2 - 2a + 1$	12	Factor: $3x^2 - 6x - 105$
4	Factor: $a^2 - a - 2$	13	Factor: $a^3 - 3a^2 - 10a$
5	Factor: $a^2 - a - 6$	14	Factor: $x^3 + 8x^2 + 7x$
6	Factor: $x^2 + x - 12$	15	Factor: $2x^8 + 16x^7 + 32x^6$
7	Factor: $a^2 + 4a - 21$		

8 Factor: $x^2 + x - 30$

9 Factor: $21 - 4c - c^2$

Name: _____

A.A.20: Factoring Polynomials 3: Factor algebraic expressions completely, including trinomials with a lead coefficient of one (after factoring a GCF) Answer Section

1 ANS: ab(b-1)PTS: 2 REF: 010003al 2 ANS: (x-3)(x-7)PTS: 2 REF: 019004al 3 ANS: $(a-1)^2$ PTS: 2 REF: 119404al 4 ANS: (a-2)(a+1)PTS: 2 REF: 119404al 5 ANS: (a-3)(a+2)PTS: 2 REF: 019506al 6 ANS: (x+4)(x-3)PTS: 2 REF: 069503al 7 ANS: (a+7)(a-3)PTS: 2 REF: 019604al 8 ANS: (x+6)(x-5)PTS: 2 REF: 060003al 9 ANS: -(c+7)(c-3)PTS: 2 REF: 030003al 10 ANS: -(x-3)(x+2)PTS: 2 REF: 089304al 11 ANS: 2(a-7)(a+2)PTS: 2 REF: 089803al 12 ANS: 3(x-7)(x+5)PTS: 2 REF: 099806al 13 ANS: a(a-5)(a+2)PTS: 2 REF: 069903al 14 ANS: x(x+7)(x+1)REF: 019105al PTS: 2 15 ANS: $2x^{6}(x+4)(x+4)$ PTS: 2 REF: 019004al