Pre-Calculus 11 Name KEY

Gr 10 Factoring Review #4

Factor the common factor out of each expression.

1) $63n - 90n^2 + 63n^3$

$9n(7 - 10n + 7n^2)$

2) $45q^2r^3 + 81qr^4 + 81p$

$9(5q^2r^3 + 9qr^4 + 9p)$

Factor each completely.

3) $n^2 - 10n + 24$

$(n-4)(n-6)$

4) $24v^2 - 140v + 144$

$4(6v^2 - 35v + 36)$

$4(6v^2 - 27v - 8v + 36)$

$4(3v(2v-9) - 4(2v-9))$

$4(2v-9)(3v-4)$

216	1
108	2
72	3
54	4
36	6
-27	-8

5) $5x^2 + 40x - 45$

$5(x^2 + 8x - 9)$

$5(x+9)(x-1)$

6) $5n^2 - 40n$

$5n(n-8)$

7) $24x^2 + 144x + 162$

$6(4x^2 + 24x + 27)$

$6(4x^2 + 18x + 6x + 27)$

$6(2x(2x+9) + 3(2x+9))$

$6(2x+9)(2x+3)$

108	1
54	2
36	3
27	4
18	6

8) $64m^2 - 100$

$4(16m^2 - 25)$

$4(4m+5)(4m-5)$