

## 12-05-14B-T8 Factor trinomial

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The following may include some expressions that do not factor over the integers. Identify these and factor the others.

1)  $u^4 - 6u^3v + 8v^2u^2$

2)  $a^3 - 6a^2b - 16b^2a$

3)  $m^2 + 8mn - 16n^2$

4)  $m^2 + 15mn + 50n^2$

5)  $2x^2 - 30xy + 108y^2$

6)  $5x^2 - 75xy + 270y^2$

## Answers to 12-05-14B-T8 Factor trinomial

1)  $u^2(u - 2v)(u - 4v)$

2)  $a(a + 2b)(a - 8b)$

3) Not factorable

4)  $(m + 5n)(m + 10n)$

5)  $2(x - 9y)(x - 6y)$

6)  $5(x - 6y)(x - 9y)$