

Math 0406-Learning Outcome : Factor Trinomials

Factor each of the following completely or state that the polynomial is non-factorable.

1. $x^2 - x - 12$

2. $x^2 + x + 1$

3. $y^2 - y - 6$

4. $15 - 2x - x^2$

5. $2x^2 + 11x + 15$

6. $2 - 7a - 6a^2$

7. $4x^2 - 11xy - 3y^2$

8. $4x^2 - 12x + 9$

The following trinomials require that you factor the GCF first.

9. $3a^2 - 21a + 30$

10. $2x^3 - 14x^2 + 20x$

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Answers:

1. $(x-6)(x+6)$
2. $(x-7)(x+7)$
3. $(5x-1)(5x+1)$
4. $(7x-2)(7x+2)$
5. $(11x-8)(11x+8)$
6. NF
7. NF
8. $(10-x)(10+x)$
9. $(9xy-5)(9xy+5)$
10. $(3-x)(3+x)$