

HW #45

Factor the greatest common factor out of the polynomial. If the GCF is 1, write *PRIME*.

1. $8x^2 + 10x$

2. $12y - 16$

3. $-15d^5 + 45d^3$

4. $13a + 20b$

5. $c^3 + c^2 - c$

6. $6n^2 - 30n + 42$

7. $-7m^2 - 10m + 17$

8. $18p^3 - 63p^2 - 9p$

9. $-18x^2 - 50y^2$

10. $100z^9 + 50z^6 - 75z^5$

11. $-36rs^2 - 72r^2s^3$

12. $36k - 30$

13. $a^7b - a^{10}$

14. $2c^5d^4 - 3c^4 + 4c^3$

15. $3g^8 + 3g^7$

Match each trinomial with its correct factorization.

1. $x^2 + 3x - 10$

a. $(x - 2)(x - 5)$

2. $x^2 - 7x + 10$

b. $(x + 1)(x + 10)$

3. $x^2 - 9x - 10$

c. $(x - 2)(x + 5)$

4. $x^2 + 11x + 10$

d. $(x + 1)(x - 10)$

Factor each trinomial.

1) $x^2 + 11x + 18$

2) $x^2 + 11x + 24$

3) $x^2 - 9x + 14$

4) $x^2 - 7x + 6$

5) $x^2 - 6x - 7$

6) $x^2 - 4x - 45$

7) $2x^2 + 5x + 2$

8) $3x^2 - 10x + 3$

9) $5x^2 - 4x - 1$

10) $7x^2 - 5x - 2$