

Name: _____

Factoring ax^2+bx+c

Factor each trinomial, if possible. If the trinomial cannot be factored using integers, write prime.

1) $15p^2 + 14p - 8$

2) $3t^2 - 32t + 20$

3) $6y^2 - 19y + 15$

4) $10k^2 - 11k - 6$

5) $6s^2 + 7s - 20$

6) $11x^2 + 55x + 25$

7) $12b^2 + 17b + 6$

8) $16m^2 + 14m - 15$

9) $18c^2 + 41c - 10$

10) $18r^2 - 19r - 12$

11) $15y^2 + 17y - 18$

12) $15x^2 - 13xy + 2y^2$

13) $8m^2 - 14mn + 3n^2$

14) $3s^2 - 10st - 8t^2$

15) $16x^2 - 16xy - 5y^2$

16) $20p^2 + 11pq - 4q^2$

17) $16a^2 - 38ab - 5b^2$

18) $3x^2 - 30xy + 56y^2$

19) $20s^2 + 17st - 24t^2$

20) $25r^2 + 25rs + 6s^2$

21) $9k^2 + 30km + 25m^2$

22) $8x^2 - 42xq + 27q^2$

23) The area of a rectangular garden is $(6x^2+23x+20)$ m². The width is $(2x+5)$ m.

a) What is the length of the garden?

b) Find the perimeter in terms of x.