

Directions: Please answer the following questions. **Show work!!**

Factor each trinomial. (Pay attention to x^2 or ax^2).

1. $3x^2 + 14x + 8$

2. $x^2 - 12x - 64$

3. $y^2 - 14y + 40$

4. $4a^2 - 9$

5. $p^2 + 12p + 36$

6. $8x^2 - 22x - 21$

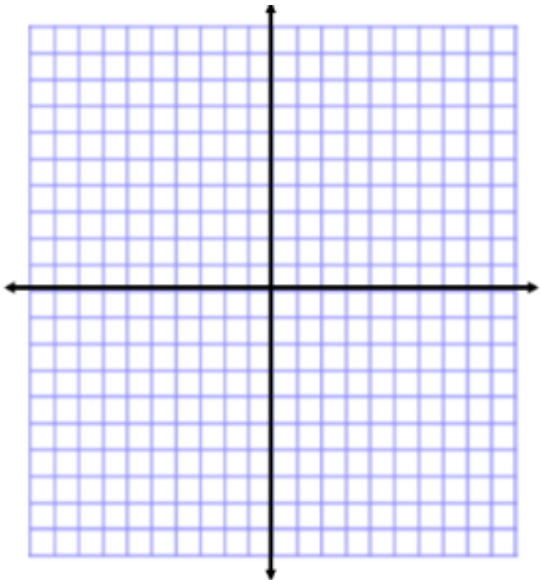
7. $w^2 - 121$

8. $n^2 + n - 56$

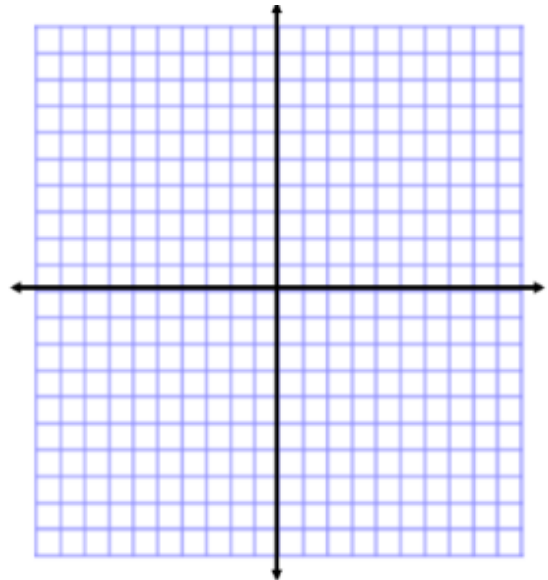
9. Simplify $(4a^5bc^2)^3$

10. Simplify $\frac{50x^7y^4}{25xy^6}$

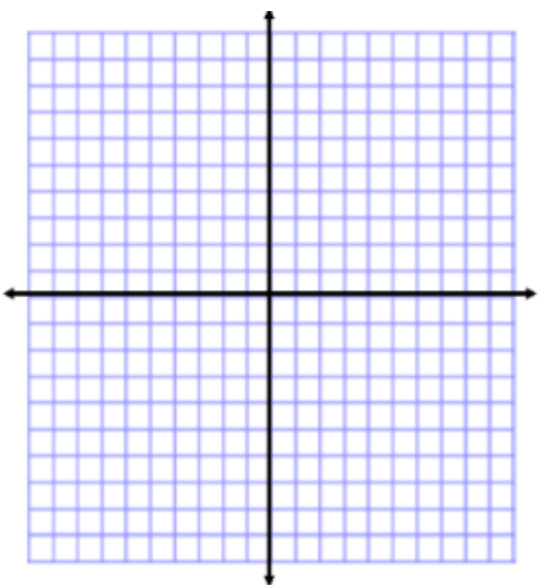
11. Graph $y = -\frac{3}{2}x + 5$



12. Graph $3y = 6x - 18$



13. $x = -5$



14. $5x + 4y = 28$

