

0) What is the GCF of $14x^2y^3z$ and $21xy^2$

#1-9, Factor each completely:

1) $5x^2y + 15x^3y^5$

2) $x^2 - 6x - 16$

3) $y^2 - 49$

4) $3w^2 + 10w + 8$

5) $3z^3 - 21z^2 + 24z$

6) $3w^2 - 12$

7) $x^2 + 3x - 12$

8) $4z^2 + 7z - 2$

9) $10a^3 + 15a^2 + 14a + 21$

#10 List the different methods of solving a quadratic equation

a.

b.

c.

d.

#11-18, Solve each quadratic equation. Try to use each method at least once.

10. $x^2 + 6x - 7 = 0$

11. $x^2 + 9x = 22$

12. $m^2 - 8m = 9$

13. $x^2 + 10x - 2 = 0$

14. $3a^2 + 4 = 10$

15. $(b - 2)^2 = 9$

16. $0 = 3x^2 - 5x + 4$

17. $x^2 + 5x = 7$

18. $2x^2 - 7 = 4x$