

Algebra Review

In problems 1-3, solve each equation using the quadratic formula

1. $8x^2 - 6x - 1 = 0$	2. $x^2 + 2x + 9 = 0$
3. $8x^2 + 7x - 1 = 0$	

In problems 4-20, factor

4. $8x^2 + 32x - 16$	5. $3x^5 - 9x^3 + 9x^2$
6. $-10x^7 + 25x^2$	7. $x^2 - 2x - 48$
8. $x^2 - 34x + 120$	9. $x^2 - 6x - 40$
10. $x^2 + 18x + 80$	11. $7x^2 - 22x + 3$
12. $16x^2 - 2x - 3$	13. $60x^2 - 16x + 1$
14. $5x^2 + 13x + 6$	15. $2ax + 6a - bx - 3b$
16. $36x^2 - 27x - 4x + 3$	17. $100x^2 - 49$
18. $9x^2 - 1$	19. $8x^3 + 27$
20. $27x^3 - 64$	

In problems 21-23, solve each equation using the zero factor property

21. $9x^2 - 27x = 0$	22. $x^2 - 18x + 77 = 0$
23. $5x^2 + 19x - 4 = 0$	

Algebra Review

In problems 24-26, solve each equation using the square root property

24. $x^2 = 40$	25. $(x-5)^2 = -18$
26. $(5x-1)^2 = 16$	

In problems 27-28, solve each equation using the power principle

27. $(x+4)^{\frac{5}{2}} = 32$	28. $(x-1)^{\frac{4}{3}} = 81$
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In problems 29-30, solve each equation using the INTERSECT feature of the TI-83/84 (if the answer will not change to a fraction, round to two decimal places)

29. $7x^3 - 48x^2 + 63x + 10 = 0$	30. $x^3 + 5x^2 - 6x + 1 = 0$
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