Integrated Math 2	Worksheet 09.1c	Name:
Solve each equation.		
1. $x^2 - 25 = 0$	2. $6x^2 - 6 = 0$	3. $-3x^2 + 27 = 0$
$4 4\alpha^2 = 1 - 0$	$-4w^2$ 100 - 000	$C w^2 = 121 - 0$
4. $4x - 1 = 0$	5.4x - 100 - 800	0. $x - 121 = 0$

7.
$$x^2 - 60 = 20$$

8. $(x + 5)^2 - 6 = 43$
9. $(x - 1)^2 - 19 = 81$

10.
$$(x - 14)^2 + 13 = 14$$

11. $2(x - 3)^2 + 1 = 73$
12. $(x - 1)^2 + 15 = 35$

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13. $2(x+1)^2 - 1 = 9$

14. $2(x-3)^2 + 7 = 19$ 15. $5(x-7)^2 + 10 = 25$

16. An auditorium has a floor area of 20,000 square feet. The length of the auditorium is twice its width. Find the dimensions of the room.

17. A ball is dropped from a height of 64 feet. Its height, in feet, can be modeled by the projectile motion formula $h = -16t^2 + vt + s$, where t is the time in seconds since the ball was dropped. After how many seconds will the ball hit the ground?