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Name: \_\_\_\_\_ Score: \_\_\_\_\_

**Quadratic Equation** Sheet 1

- Abraham throws a ball from a point 40 m above the ground. The height of the ball from the ground level after  $t$  seconds is defined by the function  $h(t) = 40t - 5t^2$ . How long will the ball take to hit the ground?  
\_\_\_\_\_
- The area of a rectangular pool is 1260 m<sup>2</sup>. Find the dimensions of the rectangle, if one side of the pool is 48 ft more than three times the other side.  
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- The sum of the squares of two consecutive natural numbers is 313. Find the numbers.  
\_\_\_\_\_
- Two faucets can fill a tank in 1 hour and 20 mins. The time taken by faucet A alone to fill the tank is 2 hours more than faucet B were to fill the same tank separately. How long does it take faucet A alone to fill the tank?  
\_\_\_\_\_
- If one side of a square is increased by 10 cm and another side is increased by 5 cm, a rectangle is formed with an area that measures three times the area of the square. Find the length of the side of the square.  
\_\_\_\_\_

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$y = ax^2 + bx + c$   
 $y = x^2 + 5x + 6$   
 $y = (x + 2)(x + 3)$

Roots: -2    -3  
 Sum of roots =  $-2 + -3 = -5$      $-\frac{b}{a} = -\frac{5}{1}$   
 Product of roots =  $-2 \cdot -3 = 6$      $\frac{c}{a} = \frac{6}{1}$

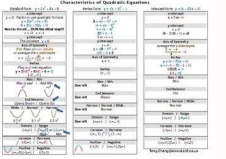
**WORKSHEET CHAPTER 4: SOLVING QUADRATIC SYSTEMS**

**1-27: Find the solutions of each system of equations.**

1. $x^2 + y^2 = 16$ $x = 2$	2. $y = x^2$ $y - 2 = x$	3. $x = y$ $\frac{x^2}{20} + \frac{y^2}{5} = 1$
4. $x^2 - y = 4$ $y = 3x$	5. $x^2 - y^2 = 9$ $8y = 4x - 12$	6. $x^2 + y^2 = 25$ $x + y = -7$
7. $(y - 1)^2 = x + 4$ $y + x = -1$	8. $\frac{x^2}{16} + \frac{y^2}{4} = 1$ $2y + 5x = 4$	9. $y^2 = x^2 + 9$ $y = 6$
10. $x^2 + y^2 = 100$ $x - y = 2$	11. $x^2 + y^2 = 9$ $x + y = 7$	12. $x^2 + 4y^2 = 4$ $x - y = 6$
13. $x^2 - 4y^2 = 16$ $y = 3x - 3$	14. $x^2 + 4y^2 = 25$ $2y = 1 - x$	15. $(x - 2)^2 + y^2 = 16$ $y - x = 2$
16. $y = -x^2$ $y = -x - 2$	17. $x^2 - 4y = 0$ $y - 2x = -3$	18. $x^2 - 9y^2 = 36$ $y = x$
19. $\frac{(x - 3)^2}{25} + \frac{(y - 4)^2}{9} = 1$ $5y + 3x = 44$	20. $(x - 3)^2 + (y + 6)^2 = 36$ $y + 3 = x$	21. $5x^2 + y^2 = 30$ $y^2 - 16 = 9x^2$
22. $x^2 + y^2 = 5$ $2x^2 + y = 0$	23. $2y^2 = 10 - x^2$ $3x^2 - 9 = y^2$	24. $4x^2 + 9y^2 = 36$ $4x^2 - 9y^2 = 36$
25. $x^2 + y^2 = 16$ $x^2 + y^2 = 9$	26. $x^2 + y^2 = 64$ $x^2 + 64y^2 = 64$	27. $x^2 - y^2 = 25$ $x^2 - y^2 = 7$

**27-45: Graph the solutions for each system of inequalities. Use graph paper provided.**

28. $x^2 + y^2 < 9$ $y < -x^2$	29. $\frac{x^2}{9} - \frac{y^2}{4} < 25$ $x^2 + y^2 < 25$	30. $x^2 + y^2 \geq 4$ $x^2 + y^2 \leq 36$
31. $\frac{x^2}{16} - y^2 \geq 1$ $x^2 + y^2 \geq 49$	32. $\frac{x^2}{25} - \frac{y^2}{16} \geq 1$ $x - y \geq 2$	33. $y \geq x^2 - 4$ $(y - 3)^2 \geq x + 2$
34. $x^2 + y^2 \geq 16$ $81x^2 + 9y^2 < 729$	35. $x^2 - 4y^2 < 16$ $x > y^2$	36. $x + 3 = y$ $x^2 + y^2 < 25$
37. $9x^2 + 4y^2 \leq 36$ $4x^2 + 9y^2 \geq 36$	38. $x + 2y > 1$ $x^2 + y^2 < 25$	39. $9x^2 - 4y^2 \geq 36$ $x + y = 4$



## Derive Quadratic Formula

$$ax^2 + bx + c = 0$$

$$x^2 + \frac{b}{a}x + \frac{c}{a} = 0$$

$$x^2 + \frac{b}{a}x = -\frac{c}{a}$$

$$x^2 + \frac{b}{a}x + \left(\frac{b}{2a}\right)^2 = -\frac{c}{a} + \left(\frac{b}{2a}\right)^2$$

$$\left(x + \frac{b}{2a}\right)^2 = -\frac{c}{a} + \frac{b^2}{4a^2} = \frac{b^2 - 4ac}{4a^2}$$

$$x + \frac{b}{2a} = \pm \sqrt{\frac{b^2 - 4ac}{4a^2}} = \pm \frac{\sqrt{b^2 - 4ac}}{2a}$$

$$x = -\frac{b}{2a} \pm \frac{\sqrt{b^2 - 4ac}}{2a} = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

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