Intermediate Algebra	Name:					
Study Guide 17	Class: Score:					
Due Date:						
No	$Work \Leftrightarrow No Points$					
Use Pencil C	$\mathbf{Only} \Leftrightarrow \mathbf{Be} \ \mathbf{Neat} \ \& \ \mathbf{Organized}$					
1. (4 points) Solve by completing	g the square method: $2x^2 - 5x = 7$					
	1					
2. (5 points) Solve by using the o	quadratic formula: $(3x-2)(2x-3)=27$					
	2					

- 3. Find a quadratic equation with the given solutions below:
 - (a) (2 points) -5 and $\frac{1}{2}$
 - (b) (2 points) 4 and $\frac{-2}{3}$

(b) _____

(c) (2 points) $-5 \pm 3i$

(c) _____

(d) (2 points) $2 \pm \sqrt{5}$

- (d) _____
- 4. (3 points) Use the value of the discriminant to discuss the type of solutions for $4x^2 = 5x 8$.

4. _____

5. (3 points) Use the value of the discriminant to discuss the type of solutions for $9x^2 + 16 = 24x$.

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6. (4 points) Solve by making a proper substitution: $x - 3\sqrt{x} - 10 = 0$

6.

7. (4 points) Solve by making a proper substitution: $(x^2 - 4)^2 - 10(x^2 - 4) + 16 = 0$

7. _

8. (4 points) Solve by making a proper substitution: $x^4 - 5x^2 - 36 = 0$

8.

9. (5 p	oints) Solve	by m	naking a p	oroper	substitution:	(x-1)	$)^{2/3}$ +	(x-1)	$)^{1/3}$ -	12 = 0
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10. (5 points) Solve by making a proper substitution: $6x^{-2} + x^{-1} - 2 = 0$

10. _____

11. (5 points) Solve by making a proper substitution: $12x^4 - 11x^2 + 2 = 0$

11. _____