| College Algebra | Name: |
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| Study Guide 10 | Class: |
| Due Date: | Score: |

No Work $\Leftrightarrow$ No Points
Use Pencil Only $\Leftrightarrow$ Be Neat \& Organized

1. Solve by the square root method.
(a) (2 points) $x^{2}=2500$
(a)
(b) (3 points) $(3 x-1)^{2}=-4$
$\qquad$
(b)
(c) (4 points) $(5 x+2)^{2}-5=-41$
(c)
2. Solve by completing the square method.
(a) (3 points) $x^{2}+8 x+7=0$
(a) $\qquad$
(b) (4 points) $3 x^{2}-8 x+5=0$
(b)
(c) (4 points) $2 x^{2}-9 x-5=0$
(c)
3. Solve by using the quadratic formula.
(a) (2 points) $x^{2}+4 x-21=0$
(a)
(b) (2 points) $2 x^{2}-7 x+5=0$
(b)
(c) (2 points) $3 x^{2}+10 x+1=0$
(c)
(d) (3 points) $(x-5)(x+3)=-15$
(d)
(e) (3 points) $(2 x-3)(x+5)=7$
(e)
4. (4 points) The product of two consecutive integers is 90 . Find all such integers.
$\qquad$
5. (4 points) The product of two consecutive odd integers is 63 . Find all such integers.
6. 
7. ( 5 points) Area of a rectangle is 35 square meters. The length of this rectangle is 3 meters shorter than twice its width. Find its dimensions.
8. $\qquad$
9. (5 points) Two legs of a right triangle are two consecutive even integers while its hypotenuse is 10 inches. Find the measure of both legs.
10. $\qquad$
