e:
5:
e:
e:

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) _____

(b) (3 points) $(3x-1)^2 = -4$

(c) (4 points) $(5x+2)^2 - 5 = -41$

(c) _____

2. Solve by completing the square method.
(a) (3 points) x² + 8x + 7 = 0

(a) _____

(b) _____

(c) (4 points) $2x^2 - 9x - 5 = 0$

(c) _____

3. Solve by using the quadratic formula.
(a) (2 points) x² + 4x - 21 = 0

(a) _____

(b) (2 points) $2x^2 - 7x + 5 = 0$

(b) _____

(c) (2 points)	$3x^2 + 10x + 1 = 0$
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(d) (3 points) $(x-5)(x+3) = -15$	(c)
(e) (3 points) $(2x-3)(x+5) = 7$	(d)
	(e)

4. (4 points) The product of two consecutive integers is 90. Find all such integers.

4._____

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5. (4 points) The product of two consecutive odd integers is 63. Find all such integers.

6. (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.

6. _____

7. (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.

7. _____