Code

Letter

A

В

C

D

E

F

G

Η

J.

K

L

 $\mathbf{M}$ 

N

Answer

 $1 \pm \sqrt{51}$ 

5  $1 \pm \sqrt{3}$ 

 $4 \pm \sqrt{30}$  $\{-\frac{1}{3},1\}$ 

 $-4 \pm \sqrt{46}$ 

 $\{-\frac{3}{5},1\}$ 

 $7 \pm \sqrt{97}$ 

 $\{-4,\frac{3}{4}\}$ 

 $9 \pm \sqrt{193}$ 

 $\{-\frac{1}{4},1\}$ 

 $-5 \pm \sqrt{5}$ 

 $7 \pm \sqrt{97}$ 

 $-7 \pm \sqrt{-83}$ 

## A P.I. R<sup>2</sup> Mini-Mystery

## The Message in the Briefcase

**Directions:** Calculate each answer below, then use your solutions to discover what Ray Radicand found in Ms. Mann's briefcase.

1. 
$$4x^2 + 11x - 20 = 0$$

2. 
$$5x^2 = 2x + 3$$

3. 
$$9x^2 + 2x = 11$$

4. 
$$6x^2 - 7x = -2$$

$$5. \quad 3x^2 - 7x - 14 = 0$$

6. 
$$-2x^2 - 9x = -14$$

7. 
$$6x^2 + 11x = -3$$
 8.  $x^2 = -x + 1$ 

8. 
$$x^2 = -x + 1$$

9. 
$$5x^2 - 2x - 10 = 0$$
 10.  $3x^2 - 2 = -x$ 

10. 
$$3x^2 - 2 = -x$$

11. 
$$-3x^2 + 8x = -10$$

12. 
$$4x^2 - x = 5$$

13. 
$$x^2 = 8x + 14$$
 14.  $7x^2 - 3x = 10$ 

14. 
$$7x^2 - 3x = 10$$

15. 
$$-4 = -3x^2 - x$$

## What did Ray Radicand find in Ms. Mann's briefcase?

10	2	4	7
- 0			,
			-

9	4	12	11	3	9	8

1	( -, 4)
О	$\{\frac{1}{2}, \frac{2}{3}\}$
P	$\{-1, \frac{4}{3}\}$
Q	$\{\frac{2}{3}, \frac{1}{2}\}$
R	
S	$-2 \pm \sqrt{2}$
T	$\{-1,\frac{2}{3}\}$
U	$\{-1,\frac{10}{7}\}$
W	
X	{-4,2}
Y	$\frac{-1 \pm \sqrt{5}}{2}$
Z	$\frac{7 \pm \sqrt{217}}{6}$
	P Q R S T U W X