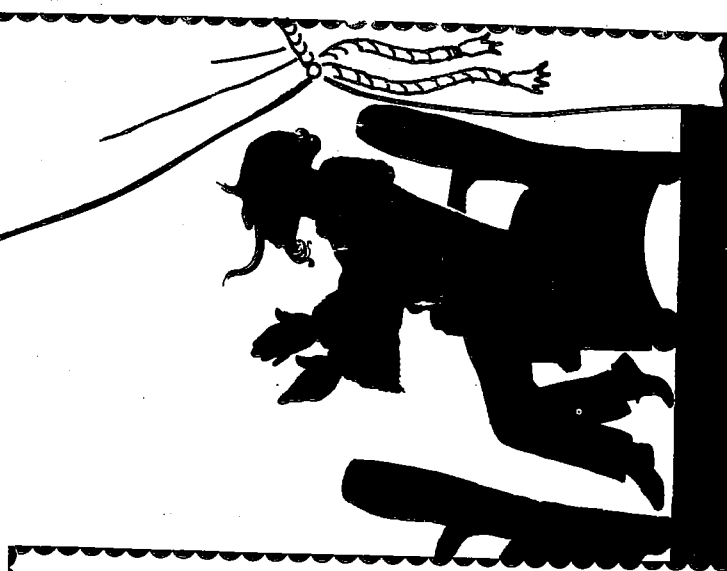


# What Do You Call It When Somebody Spends 20 Years in the 24th Row of a Theater?

Solve each equation below using the quadratic formula. Find the solution set at the bottom of the page and print the letter of the exercise above it.

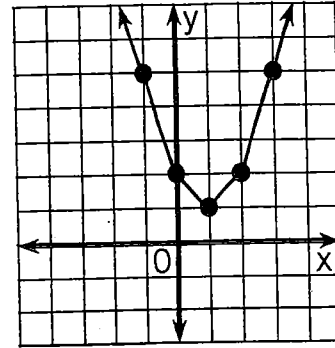
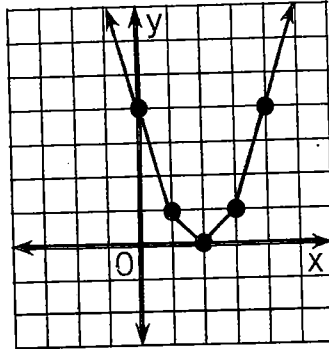
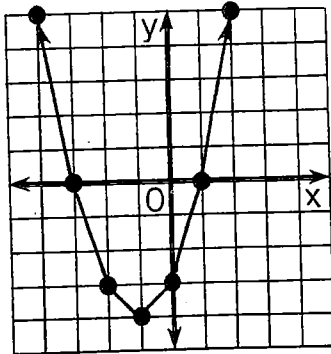
- I  $2x^2 - 7x + 5 = 0$        I  $x^2 - 6x + 4 = 0$   
 N  $2x^2 + x - 6 = 0$        L  $t^2 + 4t - 2 = 0$   
 S  $3n^2 - 2n - 5 = 0$        N  $3x^2 + 10x + 5 = 0$   
 A  $w^2 + 7w + 4 = 0$        V  $4x^2 - 3x = 1$   
 I  $5x^2 + 3x - 3 = 0$        L  $2d^2 + 4 = 5d$   
 G  $6x^2 - x = 2$        X  $2x = 7 - x^2$   
 E  $2y^2 + 2 = 9y$        I  $y^2 + 9 = -9y$



$\left\{ \frac{-4 \pm \sqrt{24}}{2} \right\}$	$\left\{ \frac{-3 \pm \sqrt{69}}{10} \right\}$	$\left\{ 1, -\frac{1}{4} \right\}$	$\left\{ \frac{6 \pm \sqrt{20}}{2} \right\}$	$\left\{ \frac{2}{3}, -2 \right\}$	$\left\{ \frac{2}{5}, 1 \right\}$	$\left\{ -1 \pm \sqrt{45} \right\}$	$\left\{ \frac{2}{5}, -1 \right\}$	$\left\{ \frac{-10 \pm \sqrt{40}}{6} \right\}$	$\left\{ \frac{-9 \pm \sqrt{30}}{2} \right\}$	$\left\{ \frac{-2 \pm \sqrt{32}}{2} \right\}$	$\left\{ 2, -\frac{3}{2} \right\}$	$\left\{ \frac{-7 \pm \sqrt{33}}{2} \right\}$	$\left\{ \frac{-9 \pm \sqrt{45}}{2} \right\}$	$\left\{ \frac{5}{3}, -1 \right\}$	no solution	$\left\{ \frac{9 \pm \sqrt{65}}{4} \right\}$
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# How Can You Help Control Soil Erosion?

Use the related graph or the discriminant of each equation to determine how many real-number solutions it has. Circle the letter of the correct choice and write this letter in the box containing the exercise number.



- ①  $x^2 + 2x - 3 = 0$   
 (D) two solutions  
 (E) one solution  
 (M) no solutions

- ②  $x^2 - 4x + 4 = 0$   
 (C) two solutions  
 (A) one solution  
 (W) no solutions

- ③  $x^2 - 2x + 2 = 0$   
 (H) two solutions  
 (D) one solution  
 (O) no solutions

	two solutions	one solution	no solutions								
④ $x^2 + 5x + 4 = 0$	K	B	G								
⑤ $x^2 - 3x = 2$	U	O	A								
⑥ $y^2 + 10y + 25 = 0$	V	A	I								
⑦ $2x^2 = 4x - 3$	F	C	H								
⑧ $4x^2 + 9 = 12x$	S	P	N								
⑨ $-3n^2 + 5n - 2 = 0$	N	R	S								
⑩ $\frac{1}{2}x^2 + 3x + 8 = 0$	R	P	L								
⑪ $\frac{1}{3}t^2 + 3 = 2t$	Y	B	T								
	7	3	10	1	5	8	2	11	6	9	4

OBJECTIVE 4-f: To use the related graph or the discriminant of an equation to determine how many real-number solutions it has.