SECTION 10.4

Solve the equation. Round solutions to the nearest hundredth, if necessary.

$$4b^2 - 13 = 3$$

$$(x-7)^2 = 6$$

$$9x^2 = 25$$

$$7(x-3)^2 = 35$$

$$5n^2 - 17 = -19$$



$$11x^2 + 3 = 5(4x^2 - 3)$$

X= ±1.41

SECTION 10.5

Find value of c that makes the expression a perfect square trinomial. Then write the expression as the square of a binomial.

$$x^2 + 6x + 6$$

$$x^2 - 3x + c$$

$$x^{2} - 3x + 6$$

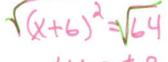
 $x^{2} - 3x + 6$

$$x^2 + 2.4 + c$$

Solve the equation by completing the square. Round to the nearest hundredth, if necessary.

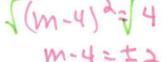
 $x^2 + 12x = 28$

X2+12x + (6)2=28+(6)2



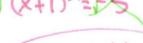
 $m^2 - 8m = -12$

ma-8m+(-4)2=-12+(-4)2



$$2x^2 + 4x + 12 = 0$$

x2+2x+(1)=-6+(1)



no solution

SECTION 10.6

Use the quadratic formula to solve the equation. Round your solutions to the nearest

hundredth, if necessary.

$$6x^{2}-6=-5x$$

$$6x^{2}+5x-6=0$$

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SECTION 10.7

Tell whether the equation has two solutions, one solution, or no solutions.

$$-2b^{2} + 8b - 4 = 0$$
 $0 = -2$
 $b = 8$
 $(= -4)$
 $64 - (4 - 2 - 4)$
 $64 - 32$
 100
 100
 100
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$$2g^{2} + 3 = 4h$$
 $2g^{3} - 4g + 3 = 0$
 $a = 2$
 $b = -4$
 $(-4)^{3} - (4 \cdot 2 \cdot 3)$
 $(-3)^{4}$
 $(-8)^{4}$
ho solution

$$8x^{2} + 9 = 4x^{2} - 4x + 8$$
 $4x^{2} + 4x + 1 = 0$
 $a = 4$
 $b = 4$
 $16 - (4.4.1)$
 $c = 1$
 $16 - 16$

One solution

Find the number of x - intercepts of the graph of the equation.

$$y = 2x^{2} - x - 1$$
 $a = \lambda$
 $b = -1$
 $(-1)^{\lambda} - (4 \cdot \lambda - 1)$
 (-8)
 $y = 2x^{2} - x - 1$
 (-8)

$$y = 6x^{2} + x + 2$$
 $a = 6$
 $b = 1$
 $b = 1$