## Solve for x:

$$-x + 7 = 4$$
 $-7 - 7$ 
 $-1 = -3$ 
 $-1 = -3$ 
 $x = -3$ 

$$-3x + 2 = 0$$

$$-3x - 2 = 0$$

$$-3x - 2 = -3$$

$$-3x - 3 = -3$$

$$-3x -$$

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Section 5.2C

A relief package is released from a helicopter at 1600 feet. The height of the package can be modeled by the equation  $h_2=16t^2+1550$ , where h is the height of the package in feet and t is the time in seconds. The pilot wants to know how long it will take for the package to hit the roof of a building 50 feet off the ground

a) Write the equation that you are trying to solve.

b) Solve the equation by factoring.

b) Write the equation that you are trying to solve. \_

c) Solve the equation by factoring.

2)	A certain number added to its square is 30. Find the number. Solve for X  Scall it X X = 30  Graph factor
	$x + x^2 = 30$ $x^2 + x - 30 = 0$
3)	The height of a flare fired from the deck of a ship in distress can be modeled by $h = -16t^2 + 104t + 56$ , where $h$ is the height of the flare above water and $t$ is the time in seconds. Find the time it takes the flare to hit the
	water.  a) Weighte Equation that you are trying to solve. 2 - 102 + 104x + 50 - 5
	b) Solve the equation by factoring. $X = -8$
_	$8(2x^2-13x-7)$ $2x+1=0$
	$2x = \frac{1}{2} n_0 r$ $2x^2   4x$
4)	The height of a triangle is Mess that is base. The area of the triangle is 42 source inches. Find its base and height.
	a) Draw a picture to represent the situation

## **HOMEWORK:**

1/2 lo Tues Y27		I can solve quadratic equations by factoring	5.2B # 1 (P-11) • (P-	-17 dd -13 3-5	©	⊖	8
QVIZ	on S	olving by sphing and f	or c <u>wale</u> No <i>wale</i> wale		©	⊕	8
		I can simplify radical expressions	5.2D #1, 8 (P-15)		©	⊕	8
		I can solve quadratic equations using square roots to find <i>rational</i> solutions	5.2E #1 – 7 (P-19)		©	⊖	8