

2a

~~Vertex~~ ~~discriminant~~

Discrim.	$b^2 - 4ac = -6$	$b^2 - 4ac = 0$	$b^2 - 4ac = 33$
	Negative Can't have Neg. square root	zero Only the vertex	Pos 2 ans from square root
Graph			
ex	zero intercept	1 intercept	2 intercept
# of Real Solns	0	1	2

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 15, 16, 20, 22, 28, 36, 39, 40, 61, 71

15. the discriminant is $-840/-147.1$
 so there are no solutions so
 she will not reach a height of 20ft/10ft

→ see next page

16. $-2, \frac{3}{4}$

20. \emptyset

22. $\pm \frac{1}{3}$

28. ≈ 2.5 sec

36. $-135, \emptyset$

39. 0, 1 solution

40. 18.25, 2 solutions

61. 6.

71. $12x + 3y \leq 60$

$x = \#$ of pizzas

$y = \#$ of pitchers

Graph the inequality

