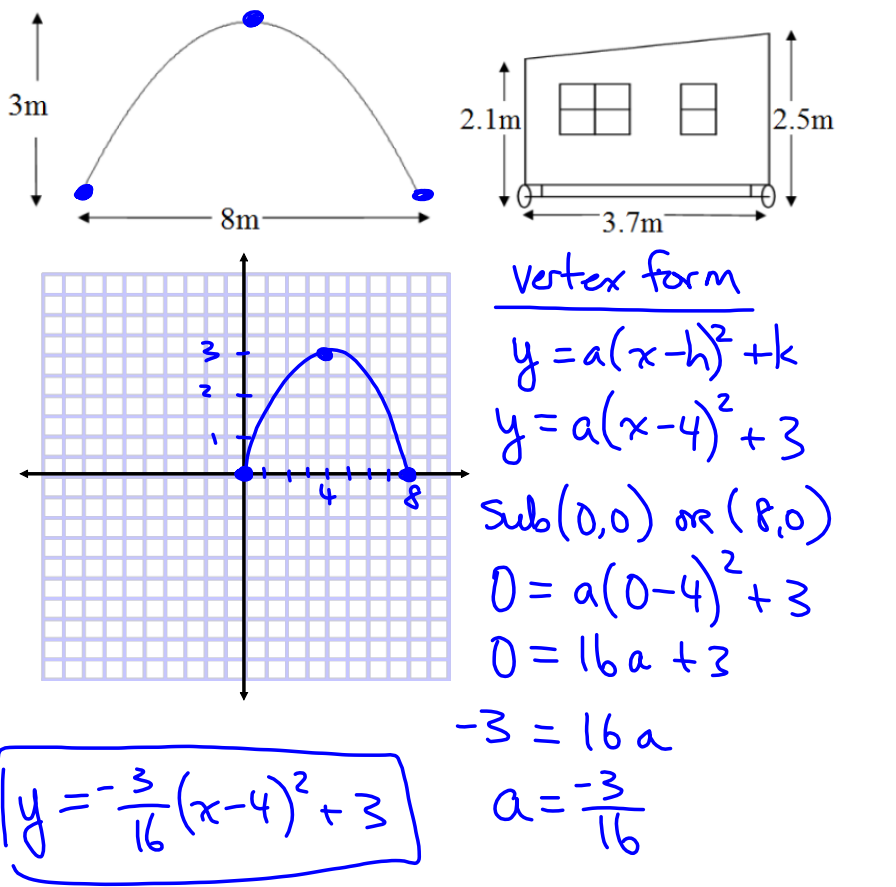


3m  
8m  
2.1m  
3.7m  
2.5m  
Rear View

1. Use your understanding of quadratic relations to answer the question. *p 287*
2. Once you have some mathematical justification, reflect on your solution (strategies & tools you used).
3. Trade your solution with a partner and have them look for examples of communication (+ or -), reflection, and problem solving.

May 4-11:30 AM



3m  
8m  
2.1m  
3.7m  
2.5m

vertex form  
 $y = a(x-h)^2 + k$   
 $y = a(x-4)^2 + 3$   
 Sub (0,0) or (8,0)  
 $0 = a(0-4)^2 + 3$   
 $0 = 16a + 3$   
 $-3 = 16a$   
 $a = \frac{-3}{16}$

$y = -\frac{3}{16}(x-4)^2 + 3$

May 4-1:15 PM

3m

8m

2.1m

2.5m

3.7m

factored form

$y = a(x-s)(x-t)$

$y = a(x-0)(x-8)$

$y = ax(x-8)$

$y = -\frac{3}{16}x(x-8)$

solve for  $y = 2.5$

$x = ?$

May 4-1:15 PM