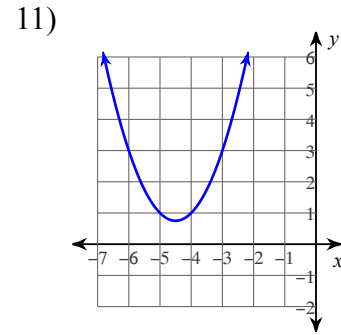
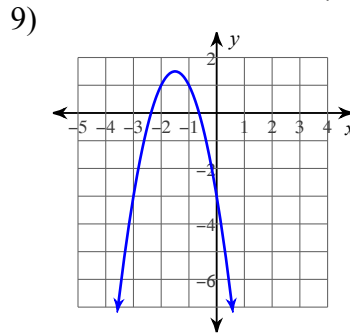
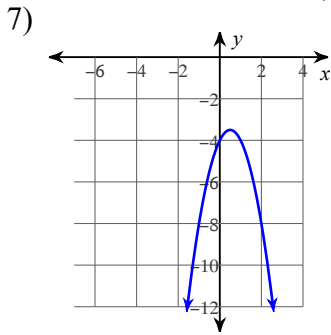
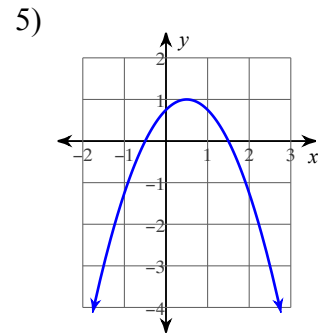
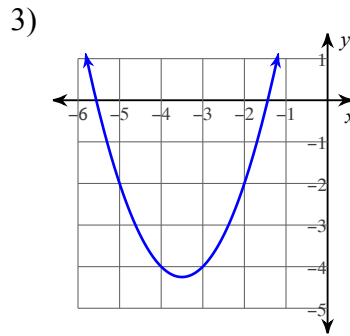
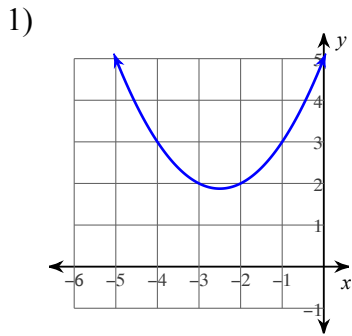


## Answers to 4.1 Quadratic Applications



- 13) a. Around 0.5 seconds  
 b. Around 490 feet  
 c. 6 seconds  
 d. Around 430 feet

- 15) b. 2.25 feet  
 c. No; my feet need to be 2.5 feet in the air, but I can only jump 2.25 feet.  
 d. D:  $[0, 0.75]$  R:  $[0, 2.25]$

- 17) b. 22.6 feet  
 c. No  
 d. D:  $[0, 2.4]$  R:  $[0, 22.6]$