

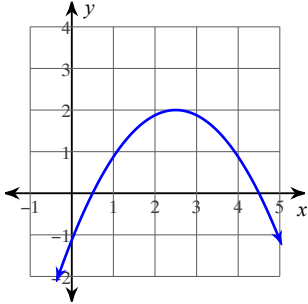
Answers to 6.4 Equations from Word Problems

1) $y = \frac{1}{1125}(x - 300)^2$ 3) $y = \frac{1}{3}(x - 3)^2 + 47$ 5) $y = -\frac{1}{5}x(x - 7)$

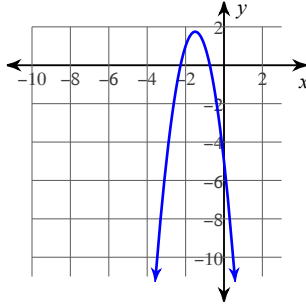
or

$$y = \frac{1}{3}(x - 3)^2 - 3$$

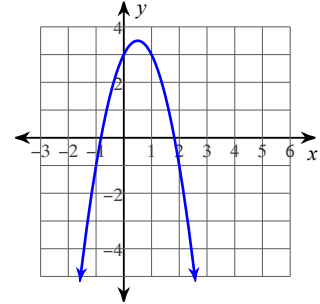
7)



9)



11)



- 13) i) 16 feet
ii) 4 seconds
iii) 15 feet, 12 feet
iv) 8 seconds
v) Domain: $[0, 8]$
Range: $[0, 16]$