

Chapter 6

ANSWER SHEET

6-1a 1) 3, 4 2) -3, 4 3) 1, 2 4) -1, 1 5) -3, 3

6-1b 1) -4, 1 2) -5, 2 3) 3, 8 4) -1/2, 2 5) 1

6-2a 1) -2, 1 2) -1, 2 3) -4, 5 4) 6, 7 5) -6, 1

6-2b 1) 2, 3 2) -3, -2 3) -4, 2 4) 4, 6 5) 2, -3

6-3a 1) -1, 5 2) 3, 9 3) -1, 1 4) 5, 6 5) -1, 4

6-3b 1) -8, 6 2) 2, 2 3) 7, 8 4) $\frac{5+3\sqrt{5}}{2}, \frac{5-3\sqrt{5}}{2}$ 5) -4, 4

(6-4 on following pages)

6-5a 1) $(0, 0), (1, 1)$ 2) $(-2, 2), (1, -1)$ 3) $(3, 9), (-4, 16)$ 4) $(-1, 3), (-2, 6)$ 5) $(\frac{3}{2}, -\frac{21}{2}), (-5, 35)$

6-5b 1) $(0, 0), (1, -1)$ 2) $(2, 4), (3, 9)$ 3) $(-1, 1)$ 4) $(4, -8), (-6, 12)$ 5) $(\frac{1}{3}, \frac{2}{3}), (-1, 6)$

6-6a

1) (on following page)

2) $(1.5, 36)$; Maximum height is 36 after 1.5 seconds

3) $(0, 0), (3, 0)$; At 0 and at 3 seconds the object is on the ground

4) 32 feet

5) 3 seconds

6-6b

1) (on following page)

2) D: $[0, \infty)$; R: $[0, \infty)$

3) 2 seconds

4) 72 meters

5) 288 meters; It is four times farther than the previous question since time is squared.

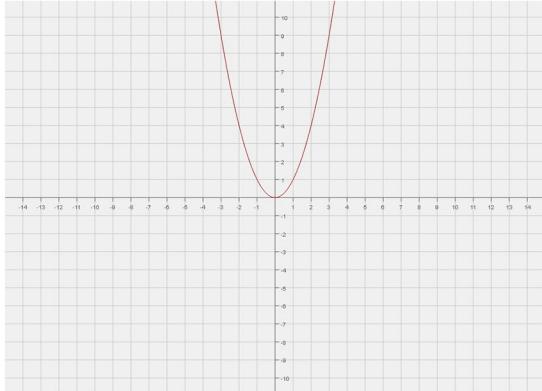
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6-4a

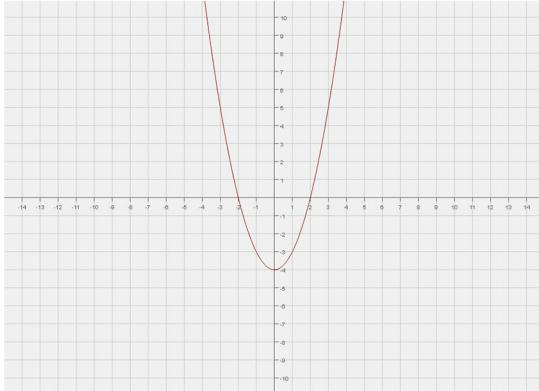
$$x_i : (0, 0)$$

1) $y_i : (0, 0)$
v: (0, 0)



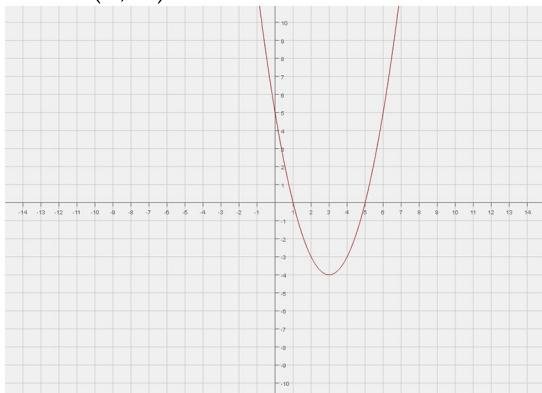
$$x_i : (\pm 2, 0)$$

2) $y_i : (0, -4)$
v: (0, -4)



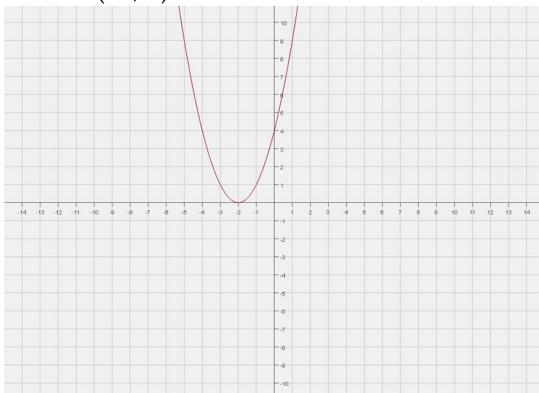
$$x_i : (1, 0) (5, 0)$$

3) $y_i : (0, 5)$
v: (3, -4)



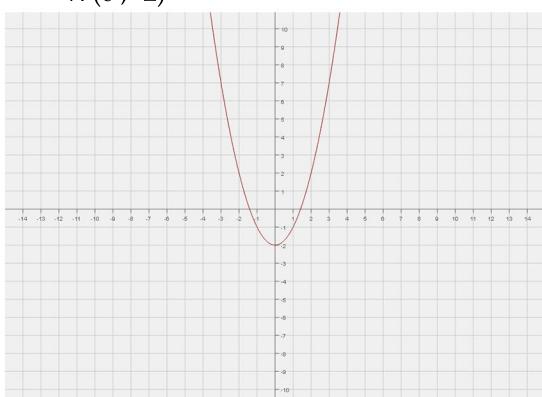
$$x_i : (-2, 0)$$

4) $y_i : (0, 4)$
v: (-2, 0)



$$x_i : (\pm\sqrt{2}, 0)$$

5) $y_i : (0, -2)$
v: (0, -2)

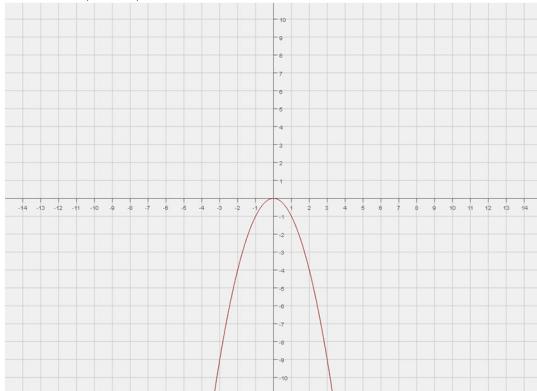


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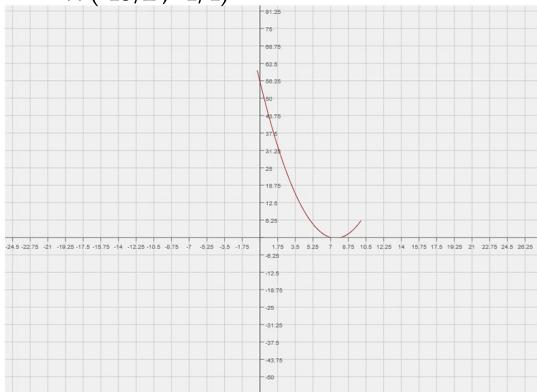
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6-4b

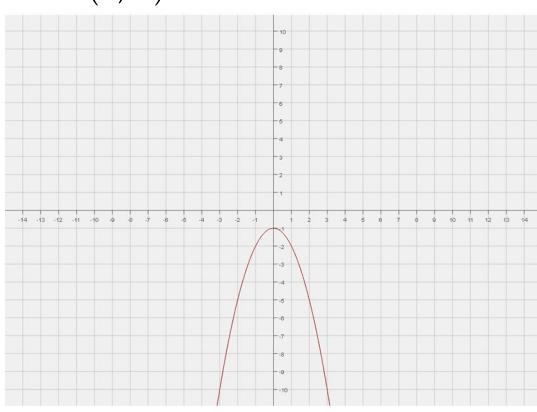
1) $x_i : (0, 0)$
 $y_i : (0, 0)$
 $v : (0, 0)$



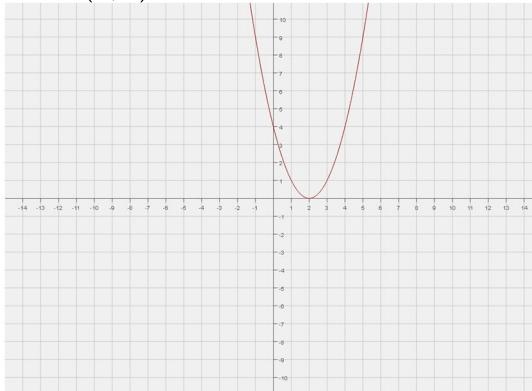
3) $x_i : (7, 0) (8, 0)$
 $y_i : (0, 56)$
 $v : (-15/2, -1/4)$



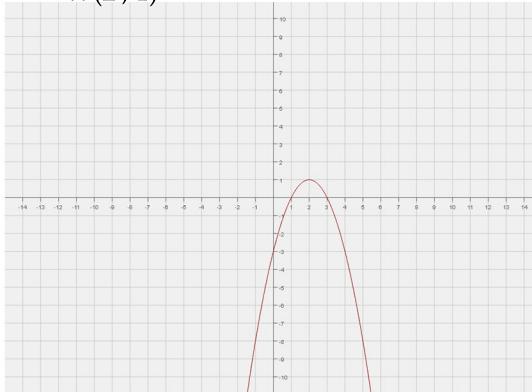
5) $x_i : \text{None}$
 $y_i : (0, -1)$
 $v : (0, -1)$



2) $x_i : (2, 0)$
 $y_i : (0, 4)$
 $v : (2, 0)$



4) $x_i : (1, 0) (3, 0)$
 $y_i : (0, -3)$
 $v : (2, 1)$

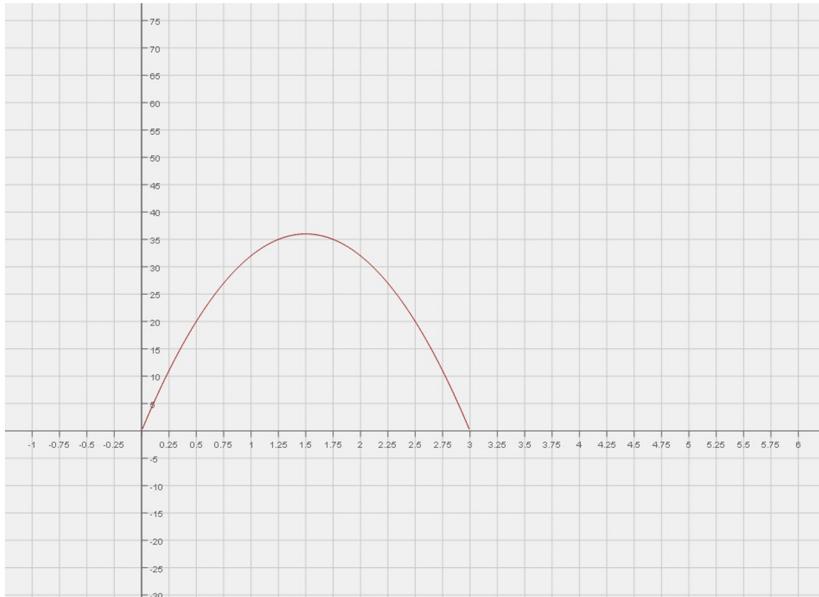


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6-6a

1)



6-6b

1)

