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The Derivative

Exercise Set 2.1

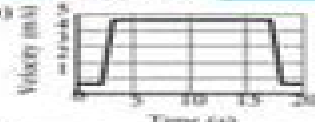
Answers to Odd-Numbered Exercises A7

1. (a) $m_{\text{ave}} = (50 - 10)/(15 - 5) = 40/10 = 4$ m/s.

Exercise Set 2.1 (Page 600)

1. (a) 4 m/s

(b) 2



3. (a) 0 cm/s (b) $t = 0$, $t = 2$, and $t = 4.2$ (c) maximum: $t = 1$;

minimum: $t = 2.4$ (d) $m_{\text{ave}} = (90 - 0)/(10 - 2) = 90/8 = 11.25$ m/s. At $t = 8$ s, $m_{\text{ave}} = (140 - 0)/(10 - 4) = 140/6 = 23.33$

5. straight line with slope equal to the velocity

7. Answers may vary. 9. Answers may vary.

3. (a) -4 (b) $-10/(1 - 3) = 5$ (c) 0 cm/s

(b) $t = 0$, $t = 2$, $t = 4$, $t = 8$ (horizontal tangent line).

(c) maximum: $t = 1$ (slope > 0), minimum: $t = 3$ (slope < 0).

(d) $-18/(4 - 2) = -9$ m/s (slope of estimated tangent line to curve at $t = 3$).

4. (a) decreasing (slope of tangent line decreases with increasing time)

(b) increasing (slope of tangent line increases with increasing time)

(c) increasing (slope of tangent line increases with increasing time)

15. (a) $2x_0$ (b) decreasing (slope of tangent line decreases with increasing time)

Responses to True-False questions may be divided to save space.
19. True; let $f(x) = x^2$, let $x_1 = 1$, and let $x_2 = 4$. Then $f(4) - f(1) = 16 - 1 = 15$.

21. False; velocity is a ratio of change in position to change in time. As time increases, the slope of the curve increases during that time. From time t_0 to time t_1 , the velocity, and the slope, decrease. At time t_1 , the velocity, and hence the slope, instantaneously drop to zero, so there is a sharp bend in the curve at that point.

23. (a) -12 ft at about 4:50 p.m. (b) 1 ft/s (c) 3 ft/s at about 9

25. (a) first year (b) 6 cm²/year (c) 10 cm²/year at about age 14



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AW Chickering



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