

Holt Physics Chapter Review #2
Even Numbers of Practice Problems

8. The Olympic record for the marathon is 2.00 h, 9.00 min, 21.0 s. If the average speed of a runner achieving this record is 5.436 m/s, what is the marathon distance?

$$129 \text{ min} (60 \text{ s/ 1 min})=7740\text{s}$$

$$7740\text{s} + 21\text{s}= 7761\text{s}$$

$$v=d/t \longrightarrow d= v \times t \longrightarrow d=(7761\text{s})(5.436\text{m/s})= \mathbf{42.19\text{km}}$$

10. Sally travels by car from one city to another. She drives for 30.0 min at 80.0 km/h, 12.0 min at 105 km/h, and 45.0 min at 40.0 km/h, and she spends 15.0 min eating lunch and buying gas.

- Determine the average speed for the trip.
- Determine the total distance traveled.

$$30 \text{ min}(1\text{h}/60\text{min})=0.5\text{h} \qquad 12\text{min}(1\text{h}/60\text{min})=0.2\text{h}$$

$$45\text{min}(1\text{h}/60\text{min})=0.75\text{h} \qquad 15 \text{ min}(1\text{h}/60\text{h})=0.25\text{h}$$

By distance= velocity x time

$$\text{Total Distance}= v_1t_1+v_2t_2+v_3t_3$$

$$\text{Tot Distance}=(0.5\text{h} \times 80\text{km/h})+ (0.2\text{h} \times 105\text{km/h})+ (0.75\text{h} \times 40\text{km/h})= \mathbf{a. 91\text{km}}$$

$$91\text{km}/ 0.25\text{h}+0.5\text{h}+0.2\text{h}+0.75\text{h} = \mathbf{b. 53.53 \text{ km/h}}$$

16. A car traveling in a straight line has a velocity of +5.0 m/s. After an acceleration of 0.75 m/s², the car's velocity is +8.0 m/s. In what time interval did the acceleration occur?

$$V_i= 5\text{m/s} \qquad a= 0.75\text{m/ss} \qquad V_f=8\text{m/s}$$

$$a= (V_f-V_i)/t \longrightarrow t= (8\text{m/s}-5\text{m/s})/ 0.75\text{m/ss} = \mathbf{4\text{s}}$$

18. A car traveling in a straight line has a velocity of +5.0 m/s. After an acceleration of 0.75 m/s², the car's velocity is +8.0 m/s. In what time interval did the acceleration occur?

$$V_i= 21\text{m/s} \qquad V_f= 0 \qquad t=21\text{s}$$

$$\text{delta } x =(\frac{1}{2})(21 \text{ m/s} +0)21\text{s}= \mathbf{220.5\text{m}}$$

20. A car traveling at +7.0 m/s accelerates at the rate of +0.80 m/s² for an interval of 2.0 s. Find v_f.

Holt Physics Section Review Worksheets Answers 1 2

Michael Rajnik



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web mar 6 2023 the roll pass design scheme corresponding to the minimal target function is considered the best the general idea and scheme of optimizing roll pass design that is suitable for a most broad range of structural sections is described in work 1 as part of the optimal roll pass design concept

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web jun 18 2014 roll pass design is an essential part of long product rolling process since the long products are rolled between the shaped rolls in the long product rolling mills roll pass design generally means the cutting of grooves in the roll body through which steel to be rolled is made to pass sequentially to get the desired contour and size

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web jan 1 1990 in this study a computer aided design cad system to support roll pass and roll profile design of bar rolling where simple shapes like round and square bars are produced was developed in order to minimize trial and errors in industry