

Mathematics

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(Chapter – 2) (Linear Equations in One Variable) (Exercise 2.2)
(Class – VIII)

Question 1:

Solve the following linear equation: $\frac{x}{2} - \frac{1}{5} = \frac{x}{3} + \frac{1}{4}$

Answer 1:

$$\begin{aligned}\frac{x}{2} - \frac{1}{5} &= \frac{x}{3} + \frac{1}{4} \\ \Rightarrow \frac{x}{2} - \frac{x}{3} &= \frac{1}{4} + \frac{1}{5} & \Rightarrow \frac{3x - 2x}{6} = \frac{5 + 4}{20} & \Rightarrow \frac{x}{6} = \frac{9}{20} & \Rightarrow x = \frac{9 \times 6}{20} = \frac{27}{10}\end{aligned}$$

To check:

$$\begin{aligned}\frac{x}{2} - \frac{1}{5} &= \frac{x}{3} + \frac{1}{4} \\ \Rightarrow \frac{27}{10 \times 2} - \frac{1}{5} &= \frac{27}{10 \times 3} + \frac{1}{4} & \Rightarrow \frac{27}{20} - \frac{1}{5} = \frac{9}{10} + \frac{1}{4} & \Rightarrow \frac{27 - 4}{20} = \frac{18 + 5}{20} & \Rightarrow \frac{23}{20} = \frac{23}{20} \\ \Rightarrow \text{L.H.S.} &= \text{R. H. S.}\end{aligned}$$

Therefore, it is correct.

Question 2:

Solve the following linear equation: $\frac{n}{2} - \frac{3n}{4} + \frac{5n}{6} = 21$

Answer 2:

$$\begin{aligned}\frac{n}{2} - \frac{3n}{4} + \frac{5n}{6} &= 21 \\ \Rightarrow \frac{6n - 9n + 10n}{12} &= 21 & \Rightarrow \frac{7n}{12} = 21 & \Rightarrow n = \frac{21 \times 12}{7} & \Rightarrow n = 36\end{aligned}$$

To check:

$$\begin{aligned}\frac{n}{2} - \frac{3n}{4} + \frac{5n}{6} &= 21 \\ \Rightarrow \frac{36}{2} - \frac{3 \times 36}{4} + \frac{5 \times 36}{6} &= 21 & \Rightarrow 18 - 27 + 30 = 21 & \Rightarrow 21 = 21 \\ \Rightarrow \text{L.H.S.} &= \text{R. H. S.}\end{aligned}$$

Therefore, it is correct.

Question 3:

Solve the following linear equation: $x + 7 - \frac{8x}{3} = \frac{17}{6} - \frac{5x}{2}$

Answer 3:

$$\begin{aligned}x + 7 - \frac{8x}{3} &= \frac{17}{6} - \frac{5x}{2} \\ \Rightarrow \frac{x}{1} - \frac{8x}{3} + \frac{5x}{2} &= \frac{17}{6} - \frac{7}{1} \\ \Rightarrow \frac{6x - 16x + 15x}{6} &= \frac{17 - 42}{6} \\ \Rightarrow \frac{5x}{6} &= \frac{-25}{6} \\ \Rightarrow x &= \frac{-25 \times 6}{6 \times 5} & \Rightarrow x = -5\end{aligned}$$

Chapter 2giancoli Answers

Douglas C. Giancoli

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

Chapter 2giancoli Answers:

Solutions Manual for Giancoli Physics, Principles with Applications Keith H. Brown, 1980 **Physics for Scientists and Engineers with Modern Physics** Douglas C. Giancoli, 2008

Key Message This book aims to explain physics in a readable and interesting manner that is accessible and clear and to teach readers by anticipating their needs and difficulties without oversimplifying. Physics is a description of reality and thus each topic begins with concrete observations and experiences that readers can directly relate to. We then move on to the generalizations and more formal treatment of the topic. Not only does this make the material more interesting and easier to understand but it is closer to the way physics is actually practiced.

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Physics for Scientists and Engineers Douglas C. Giancoli, 2000

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Jr.,2016-04-21 Here s a current concise and evidence based approach to the selection application and biophysical effects of therapeutic modalities in a case based format with a wealth of photographs and figures The 6th Edition builds and expands on the strengths of previous editions and their focus on expanding and strengthening clinical decision making skills through a hands on problem solving approach **The Physics Around You** Dale D. Long,1988 *Study Guide--Physics for Scientists and Engineers with Modern Physics [by] Douglas C. Giancoli, 2nd Ed* Douglas Brandt,Keith Andrew,Leonard E. Storm,1988 Fundamentals of Thermal-fluid Sciences Yunus A. Çengel,Robert H. Turner,John M. Cimbala,2008 The authors present coverage of the three major subject areas comprising thermal fluid engineering thermodynamics fluid mechanics and heat transfer By emphasising the underlying physical phenomena involved they encourage both creative thinking and development of a deeper understanding of the subject **The Codes and Statutes of Montana** Montana,1895

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