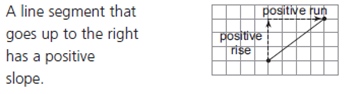
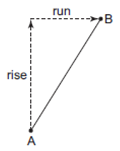
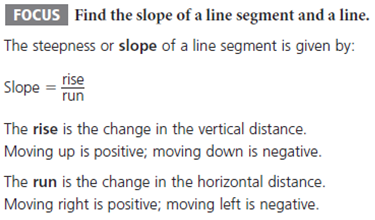
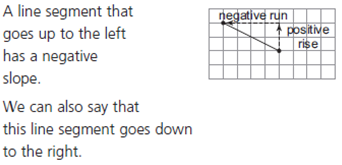
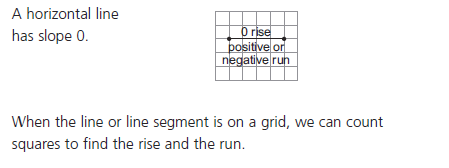
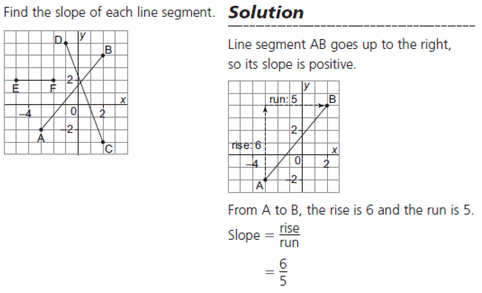
**Chp 6 Linear Functions**

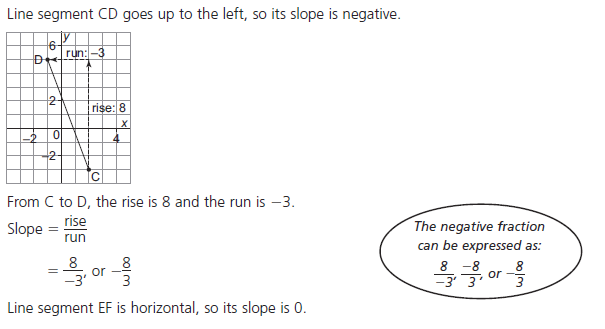
**6.1 Slope or Rate of Change**



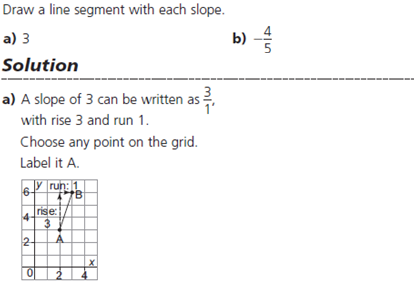
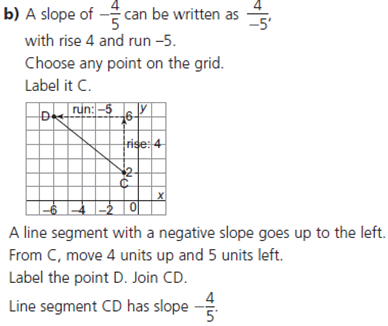


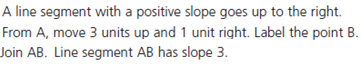
**Ex.1** Finding the Slope of a Line Segment





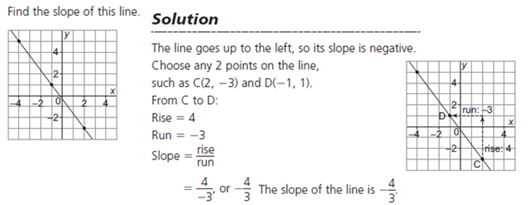
**Ex.2** Drawing a Line Segment Given a Slope





**Ex.3** Finding Slope Using Two Points on a Line

Use the "marked" points on the graph which cross at exact values.



Use the Slope equation in the form of;

Slope = y2 – y1

x2 – x1

Label the Points



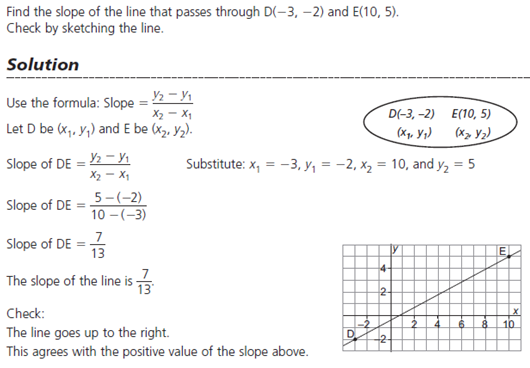
(x1 , y1) (x2 , y2) Use bracket for the second terms to prevent sign errors

Slope = 1 – ( - 3) = 1+3 = 4 =\_ 4

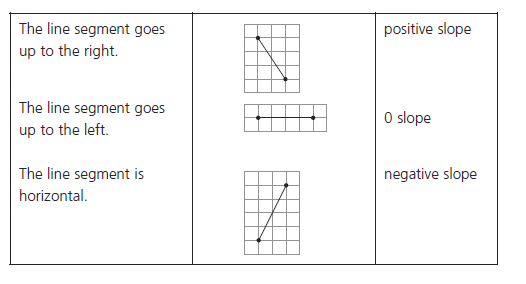
-1 – (2) -1 – 2 - 3 3

In general keep the neg. sign in front

**Ex.4** Slope Calculations

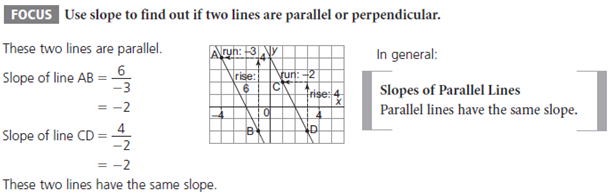


What slope Signs Mean

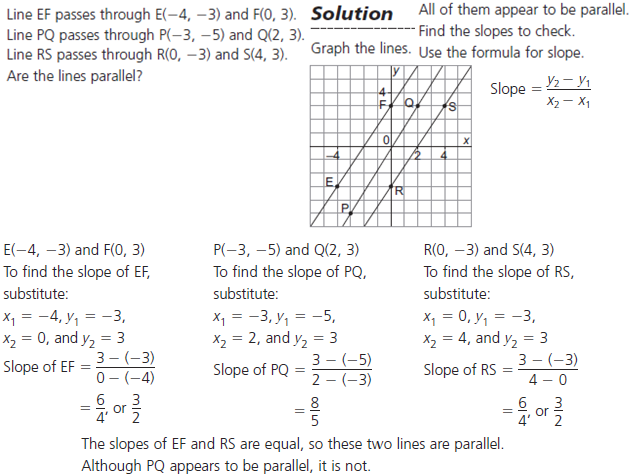


*Do Qn's p.353 #1,2,4*

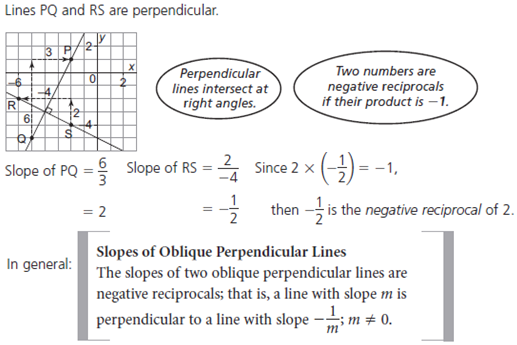
**6.2** Slopes of Parallel and Perpendicular Lines



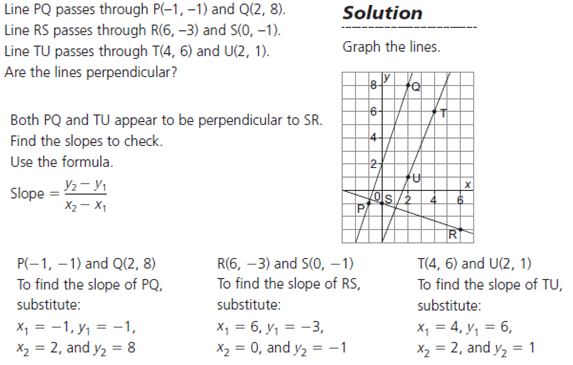
**Ex.1** Identifying Parallel Lines

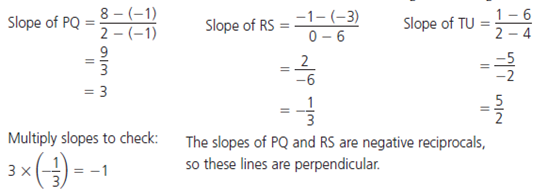


**Ex.1b** Identifying Perpendicular Lines



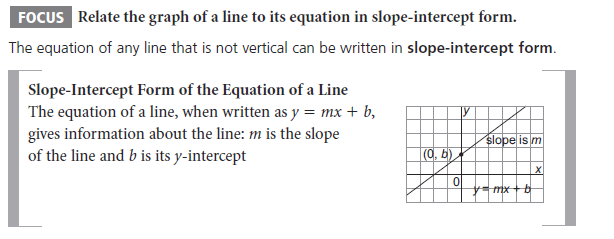
**Ex.2** Examining Slopes to Compare Lines





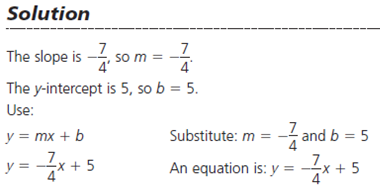
*Do Qn's p.353 #5,7,8*

**6.4 Slope – Intercept Form** – is the easiest and most commonly used method to graph a linear function.

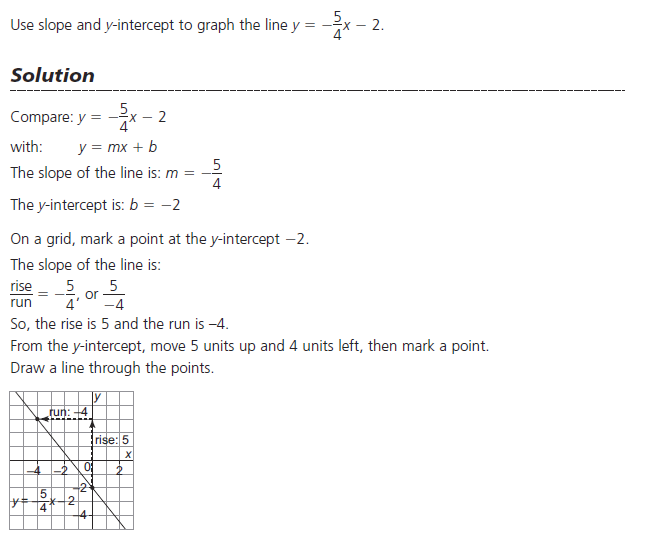


**Ex.1** Writing an Equation given the Slope and y-intercept

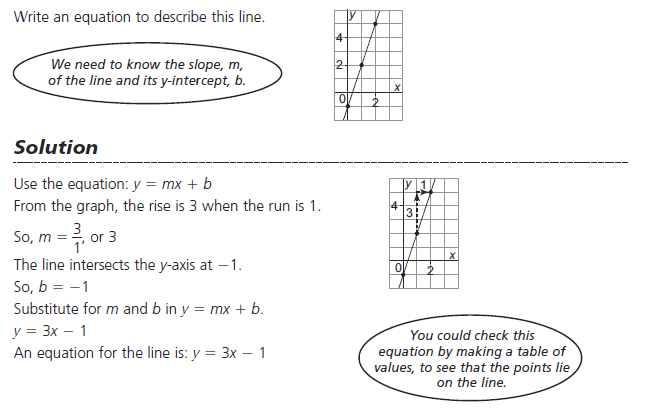




**Ex.2** Graphing a Line given in Slope-Intercept Form

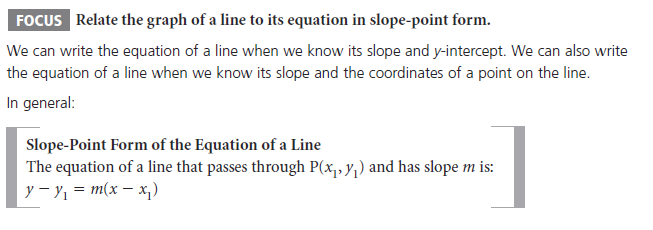


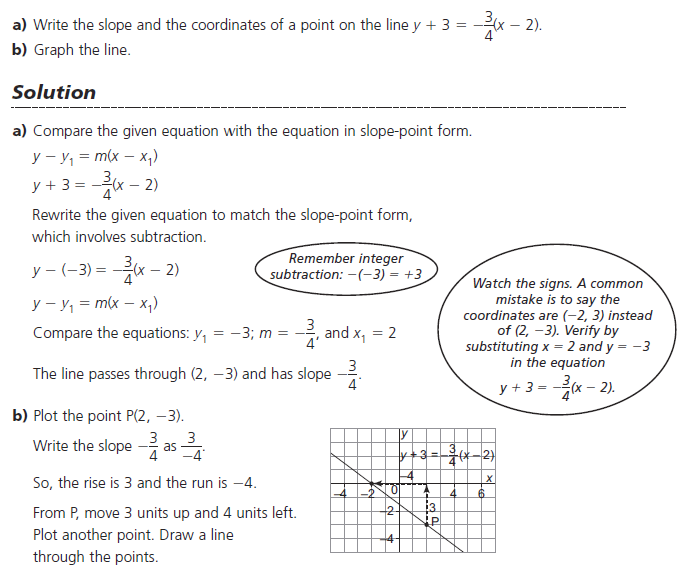
**Ex.3** Writing an Equation given a Graph



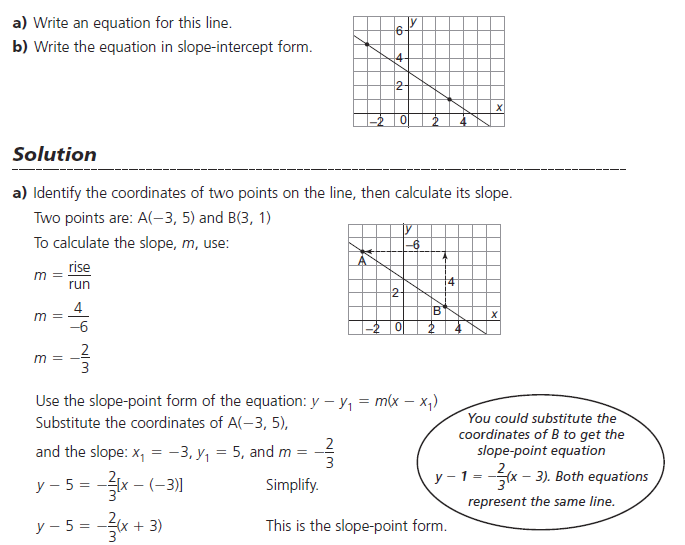
*Do Qn's p.376 #2*

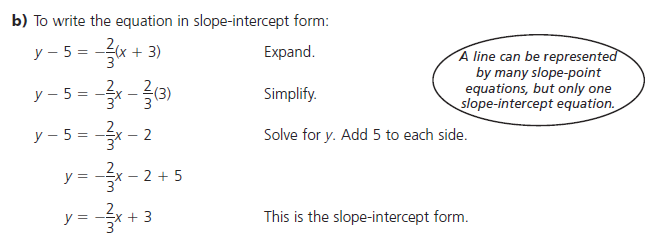
**6.5 Slope – Point Form**



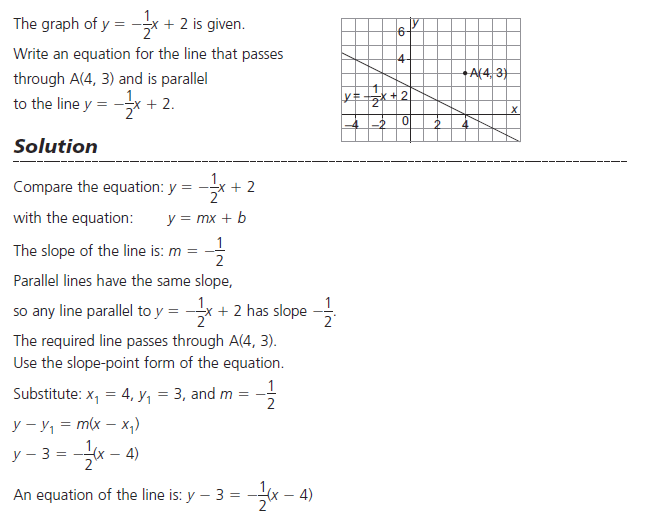
**Ex.1** Graphing a Line given an Equation in Slope – Point Form

**Ex.2** Writing an Equation in Slope- Point Form given a Graph



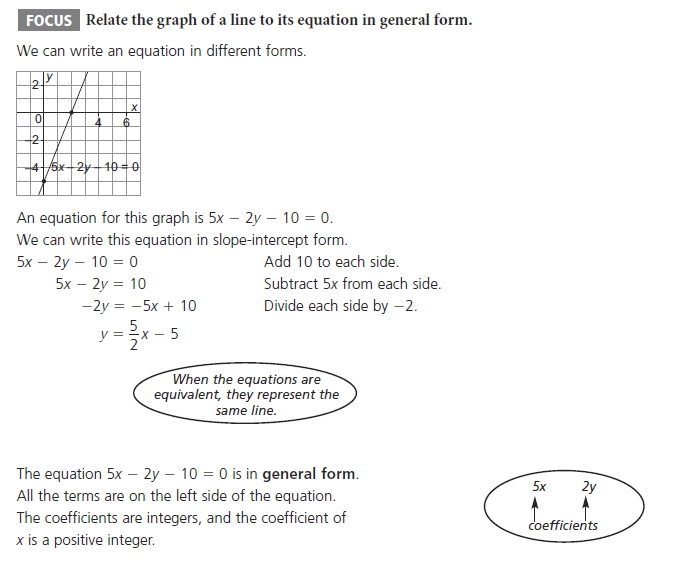


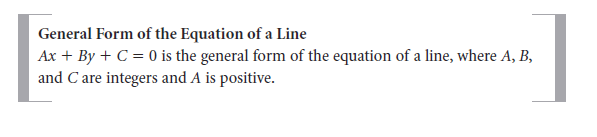
**Ex.3** Writing an Equation of a Line which is Parallel to a given Line



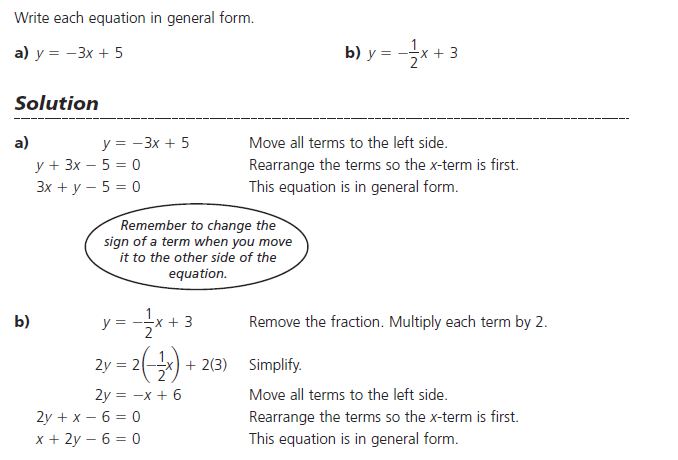
*Do Qn's p.376 #3&4*

**6.6** **General Form for Linear Relations** – general form is more of a starting or ending point for a question. It tells us very little about the line itself, with the exception of graphing using the x&y intercepts.

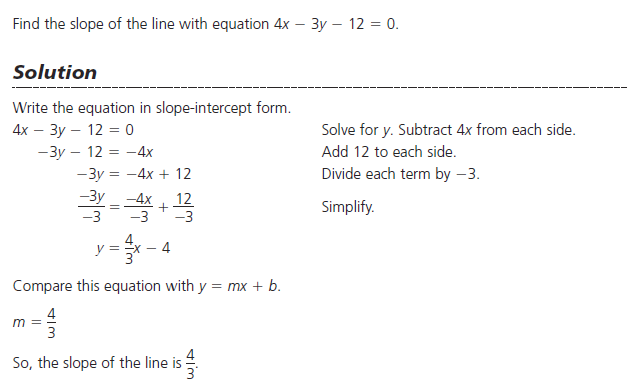




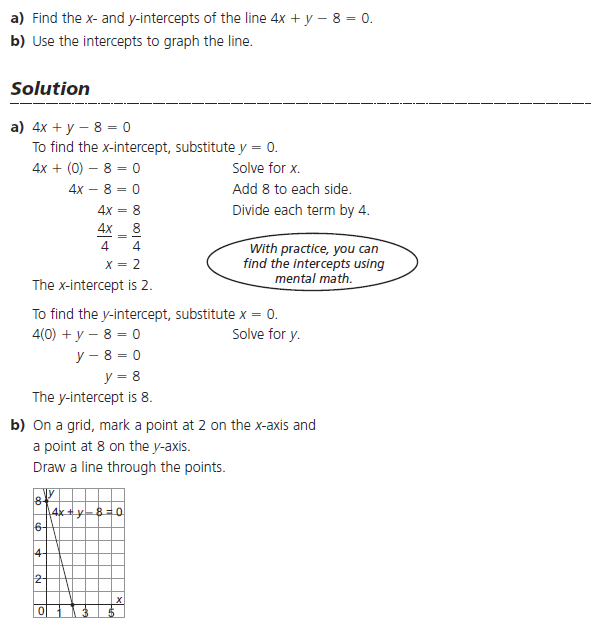
**Ex.1** Writing an Equation in General Form



**Ex.2** Finding the slope of a Line given in General Form



**Ex.3** Using Intercepts to Graph a Line in General Form



*Do Qn's p.384 #6&9*

**Chp6 Study Guide**

