

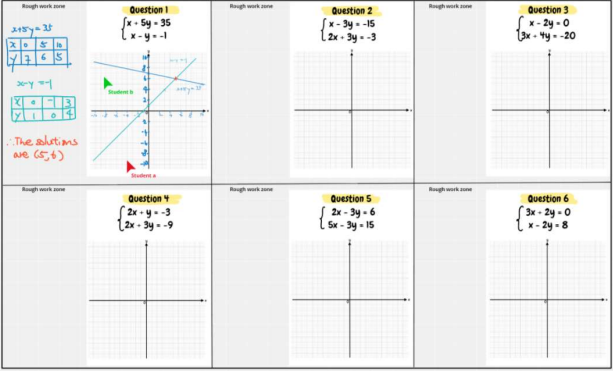


## Junior Secondary Mathematics Curriculum (S1 – S3)

### Learning Unit 9 – Linear Equations in Two Unknowns Active Learning Lesson Activity

#### Active Learning Exercises for Students

Teacher's Activity			Students' Activity
<b>Collaborative Learning Activities</b>  <b>Teacher:</b>  Assign students in groups to solve the following simultaneous equations by the substitution method on the <b>Interactive Online Whiteboards (IOWB)</b> .  Group students into 6 groups. Students can observe the calculation procedures of other groups and counter check their answers after that.  <b>Solve the following simultaneous equations.</b>			<b>Students:</b>    <a href="https://app.conceptboard.com/board/me58-m8hg-7qe8-53to-g4ae">https://app.conceptboard.com/board/me58-m8hg-7qe8-53to-g4ae</a>  Actively using the <b>Interactive Online Whiteboards (IOWB)</b> to plot the graph and find the intersection point.  Students can ask questions through <b>YoTeach!</b> .  
<b>Question 1</b> $\begin{cases} x + 5y = 35 \\ x - y = -1 \end{cases}$	<b>Question 2</b> $\begin{cases} x - 3y = -15 \\ 2x + 3y = -3 \end{cases}$	<b>Question 3</b> $\begin{cases} x - 2y = 0 \\ 3x + 4y = -20 \end{cases}$	
<b>Question 4</b> $\begin{cases} 2x + y = -3 \\ 2x + 3y = -9 \end{cases}$	<b>Question 5</b> $\begin{cases} 2x - 3y = 6 \\ 5x - 3y = 15 \end{cases}$	<b>Question 6</b> $\begin{cases} 3x + 2y = 0 \\ x - 2y = 8 \end{cases}$	
			

## 初中數學課程（中一至中三）

### 學習單元 9 – 二元一次方程 主動學習課堂活動

#### 學生的主動學習練習

老師的教學活動			學生的學習活動
<b>協作學習活動</b>  以線上協作白板平台讓學生展示運算步驟。  <b>老師：</b>  學生將會分為 6 組，並請學生在線上協作白板平台上以圖解法解下列的聯立方程。  在協作學習活動中，學生們可以觀察其他小組的運算過程，並在寫下答案後核對其他組別的答案。  以圖解法解下列的聯立方程。			<b>學生：</b>    <a href="https://app.conceptboard.com/board/me58-m8hg-7qe8-53to-g4ae">https://app.conceptboard.com/board/me58-m8hg-7qe8-53to-g4ae</a>  掃描 QR 碼以進入房間  積極參與討論並共同在線上協作白板平台上解題  學生可以通過 <b>YoTeach!</b> 向老師提問  
<b>問題 1</b> $\begin{cases} x + 5y = 35 \\ x - y = -1 \end{cases}$	<b>問題 2</b> $\begin{cases} x - 3y = -15 \\ 2x + 3y = -3 \end{cases}$	<b>問題 3</b> $\begin{cases} x - 2y = 0 \\ 3x + 4y = -20 \end{cases}$	
<b>問題 4</b> $\begin{cases} 2x + y = -3 \\ 2x + 3y = -9 \end{cases}$	<b>問題 5</b> $\begin{cases} 2x - 3y = 6 \\ 5x - 3y = 15 \end{cases}$	<b>問題 6</b> $\begin{cases} 3x + 2y = 0 \\ x - 2y = 8 \end{cases}$	
			