Solving Linear Simultaneous Equations by Substitution

| (a) | Solve | $4 x-y=17$ <br> $x=y+2$ |
| :--- | :--- | :--- |
| (b) | Solve | $2 x+y=6$ <br> $y=4 x+3$ |
| (c) | Solve | $3 x+7 y=13$ <br> $y=x-11$ |

(a) Solve
$4 x-3 y=7$
$3 y=x+5$
(b) Solve $\quad y+1=3 x$
$2 x-3 y=24$
(c) Solve $3 x+5 y=29$
$y+11=5 x$
(a) Solve $4 x+6 y=74$

$$
11-y=2 x
$$

(b) Solve $\quad y-8=6 x$
$4 x+5 y+28=0$
(c) Solve

$$
8-x=3 y
$$

$10-3 x=5 y$
(a) Given that $7 x=2 y+34$ and $3 x+5 y+3=0$, find the value of $x^{2}+y^{2}$
(b) Solve $\frac{3 x+1}{2}=y$

$$
5 y-4 x=13
$$

(c) Find the coordinates of intersection of the straight lines with equations

$$
\begin{gathered}
y=3 x-2 \\
x+3 y=19
\end{gathered}
$$

Solving Linear Simultaneous
Equations by Substitution

| (a) | Solve |
| :--- | :--- |
|  |  |
| (b) | $4 x-y=17$ <br> $x=y+2$ |
| (c) | Solve |
|  | $2 x+y=6$ <br> $y=4 x+3$ |
|  |  |

\(\left.\begin{array}{ll}(a) \& Solve \\
\& \\
\& 4 x-3 y=7 \\

3 y=x+5\end{array}\right]\)| $y+1=3 x$ |
| :--- |
| (b) |
|  |
|  |
|  |
| (c) |
| (c) |
| (olve |

(a) Solve $\quad \begin{aligned} 4 x+6 y & =74 \\ 11-y & =2 x\end{aligned}$
(b) Solve $\quad y-8=6 x$
$4 x+5 y+28=0$
(c) Solve
$8-x=3 y$
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