Fill In The Blanks…

**Simultaneous Equations** (same x coefficient)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Question** | **Add or Subtract?** | **Carry out addition or subtraction** | **Work out** $y$ | **Substitute** $y $**into one equation** | **Work out** $x$ | **Check using other equation** | **State both answers** |
| $$x+3y=13$$$$x+y=7$$ | Subtract | $$x+3y=13$$$$- x+y =7 $$$$ 2y=6$$ | $$y=3$$ | $$x+3y=13$$$$x+9=13$$ | $$x=4$$ | $$x+y=7$$$$4+3=7$$✓ | $$x=4$$$$y=3$$ |
| $$3x+y=19$$$$3x-4y=14$$ | Subtract | $$ 3x+y=19$$$$- 3x-4y=14$$$$ 5y=5$$ | $$y=1$$ | $$3x+y=19$$$$3x+1=19$$$$3x=18$$ |  |  |  |
| $$x+5y=22$$$$-x+2y=6$$ | Add | $$ x+5y=22$$$$+ -x+2y=6$$$$ $$ |  |  |  |  |  |
| $$2x-5y=25$$$$2x+3y=1 $$ | Subtract |  |  |  |  |  |  |
| $$-3x+y=10$$$$3x+2y=11$$ |  |  |  |  |  |  |  |
| $$x+2y=-7$$$$x-6y=5$$ |  |  |  |  |  |  |  |