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| **Sort It Out** | **Linear Simultaneous Equations** |

Sort these pairs of simultaneous equations into four categories, choosing for each pair the most efficient method for solving. Then solve each pair of simultaneous equations…

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| **1** | $$x+2y=7$$$$4x-2y=8$$ | **2** | $$x+5y=13$$$$x+7y=19$$ | **3** | $$x-3y=2$$$$4x-3y=17$$ |
| **4** | $$5x+2y=11$$$$6x+2y=13$$ | **5** | $$2x+7y=29$$$$x+3y=13$$ | **6** | $$2x+y=8$$$$9x-2y=49$$ |
| **7** | $$3x+4y=17$$$$3x+2y=25$$ | **8** | $$2x-3y=11$$$$5x+6y=14$$ | **9** | $$-2x+3y=-7$$$$x-8y=10$$ |
| **10** | $$5x+2y=-5$$$$-5x-3y=10$$ | **11** | $$3x+2y=12$$$$-x+11y=31$$ | **12** | $$5x+3y=6$$$$9x+y=24$$ |
| **13** | $$2x-5y=2$$$$3x-7y=4$$ | **14** | $$4x+3y=11$$$$7x-2y=-17$$ | **15** | $$11x-4y=8.5$$$$6x-3y=3$$ |

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| **A** | Match up the $x$ coefficients and add the equations | **B** | Match up the $x$ coefficients and subtract the equations |
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| **C** | Match up the $y$ coefficients and add the equations | **D** | Match up the $y$ coefficients and subtract the equations |
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