

True or False?

**Simultaneous Equations**

For each statement, circle the correct response.

|  |  |  |  |
| --- | --- | --- | --- |
| **1** | $x=2$ and $y=3$are the solutions to the simultaneous equations$x+y=5$ and $x-y=1$ | True | False |
|  |  |  |  |
| **2** | $x=5$ and $y=2$are the solutions to the simultaneous equations$2x+y=12$ and $x+5y=15$ | True | False |
|  |  |  |  |
| **3** | $x=4$ and $y=1$are the solutions to the simultaneous equations$3x+4y=16$ and $x-y=3$ | True | False |
|  |  |  |  |
| **4** | $x=6$ and $y=3$are the solutions to the simultaneous equations$2x-3y=6 $and $4x-y=21$ | True | False |
|  |  |  |  |
| **5** | $x=3$ and $y=-2$are the solutions to the simultaneous equations$x+y=1$ and $x-y=5$ | True | False |
|  |  |  |  |
| **6** | $x=4$ and $y=-5$are the solutions to the simultaneous equations$2x+y=13$ and $x-2y=14$ | True | False |
|  |  |  |  |
| **7** | $x=1.5$ and $y=-1$are the solutions to the simultaneous equations$6x-2y=11 $and $4x+3y=9$ | True | False |
|  |  |  |  |
| **8** | $x=\frac{1}{2}$ and $y=\frac{3}{2}$are the solutions to the simultaneous equations$x+y=2 $ and $7x-y=2$ | True | False |
|  |  |  |  |
| **9** | $x=-0.5 $and $y=-4$are the solutions to the simultaneous equations$2x-y=3 $and $2x+3y=-11$ | True | False |
|  |  |  |  |
| **10** | $x=\frac{2}{3} $and $y=5$are the solutions to the simultaneous equations$3x-y=-3 $and $\frac{3}{2}x+2y=11$ | True | False |