**Equations**

**Directions (1 - 20):** In the following questions two equations numbered I and II are given. You have to solve both the equations and   
 **Give answer 1) if x > y   
 Give answer 2) if x ≥ y   
 Give answer 3) if x < y   
 Give answer 4) if x ≤ y   
 Give answer 5) if x = y or the relationship cannot be established**

**Model 1: Linear Equations**

1. C:\Users\tsuser.PC\Desktop\final.pngI. 6x + 7y = 93 II. 3x + 2y= 33
2. C:\Users\tsuser.PC\Desktop\final.pngI. x + = 0 II. y + 42 =0
3. C:\Users\tsuser.PC\Desktop\final.pngI. + = II. y5 – = 0

**Model 2: Quadratic Equations**

1. C:\Users\tsuser.PC\Desktop\final.png I. x2 – 10x + 21 = 0 II. y2 – 16y + 63 = 0

1. C:\Users\tsuser.PC\Desktop\final.png I. 17x2 + 48x = 9 II. 13y2 = 32y – 12
2. I. x2- (16)2 = (23)2 -56 II. y1/3 – 55 + 376 = (18)2
3. C:\Users\tsuser.PC\Desktop\final.png I. + = II. y – = 0 **[November 08, 2014 @ 1h 09m 22s]**
4. C:\Users\tsuser.PC\Desktop\final.png I. + = 17 II. + = **[November 08, 2014 @ 1h 12m 22s]**
5. I. x2 – 468 = 1729 II. y2 – 1733 + 1564 = 0
6. I. x + 1234 = 1486 II.
7. C:\Users\tsuser.PC\Desktop\final.png I. - = 5 II. - = **[November 08, 2014 @ 1h 12m 22s]**
8. I. 4x + 7y = 209 II. 12x – 14y = -38
9. I. 16x2 + 20x + 6 = 0 II. 10y2 + 38y + 24 = 0
10. I. 8x2 + 6x = 5 II. 12y2 – 22y + 8 = 0
11. I. 18x2+ 18x + 4= 0 II. 12y2 + 29y + 14 = 0
12. I. - 125 = 0 II.
13. C:\Users\tsuser.PC\Desktop\final.png I. - = II. + = **[June 20, 2015 @ 04m 10s]**
14. I. (625)1/4 x + = 155 II. y + 13 = 279
15. I. 5x2 – 18x + 9 = 0 II. 3y2 + 5y – 2 = 0
16. I. + = II. y4 – = 0

**Answers**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 - 3 | 2 - 1 | 3 - 5 | 4 - 4 | 5 - 3 | 6 - 4 | 7 - 3 | 8 - 3 | 9 - 5 | 10 - 1 |
| 11 - 1 | 12 - 5 | 13 - 1 | 14 - 4 | 15 - 2 | 16 - 1 | 17 - 3 | 18 - 1 | 19 - 1 | 20 - 3 |

**Note:** The date and time mentioned against some questions refer to the doubts clarification session on Quantitative Aptitude in which the question was solved.