

SHREE SANATAN DHARM EDUCATION CENTRE

MATHS REVISION SHEET CLASS X (2016-17)

Solve the following pairs of equations:

1. $\frac{x}{3} + \frac{y}{4} = 4$; $\frac{5x}{6} - \frac{y}{8} = 4$

2. $\frac{x}{a} + \frac{y}{b} = a+b$; $\frac{x}{a^2} + \frac{y}{b^2} = 2$

3. $0.2x + 0.3y = 1.3$; $0.4x + 0.5y = 2.3$

4. $2x + 3y + 5 = 0$; $3x + 0.5y - 12 = 0$

5. $\frac{2}{\sqrt{x}} + \frac{3}{\sqrt{y}} = 2$; $\frac{4}{\sqrt{x}} + \frac{9}{\sqrt{y}} = -1$

6. $\frac{2x}{x+y} = \frac{3}{2}$; $\frac{xy}{2x-y} = -\frac{3}{10}$

7. $\frac{44}{x+y} + \frac{30}{x-y} = 10$; $\frac{55}{x+y} + \frac{40}{x-y} = 13$

8. $\frac{4}{x} + 5y = 7$; $\frac{3}{x} + 4y = 5$

9. $7(y+3) - 2(x+2) = 14$; $4(y-2) + 3(x-3) = 2$

10. $2(3u-v) = 5uv$; $2(u+3v) = 5uv$

11. $\frac{x+y}{xy} = 2$; $\frac{x-y}{xy} = 6$

12. $\frac{5}{x-1} + \frac{1}{y-2} = 2$; $\frac{6}{x-1} - \frac{3}{y-2} = 1$

13. $3x - \frac{y+7}{11} - 8 = 0$; $2y + \frac{x+11}{7} = 10$

14. $\frac{2}{x} + \frac{3}{y} = \frac{9}{xy}$; $\frac{4}{x} + \frac{9}{y} = \frac{21}{xy}$

15. $\frac{57}{x+y} + \frac{6}{x-y} = 5$; $\frac{38}{x+y} + \frac{21}{x-y} = 9$
