

2.4.D1(B) – SOLVING SYSTEMS OF EQUATIONS: SUBSTITUTION METHOD

Solve the system of linear equations algebraically. Write your solution as an ordered pair (x, y) . If the system has no solution or infinitely many solutions, then so state. **work must be shown to receive credit.**

1) $7x + 5y = 16$
 $y = -6x + 17$

2) $y = -4x + 8$
 $-8x - 2y = -2$

3) $x = 5y - 20$
 $3x + 8y = 9$

4) $x = 4y + 23$
 $-4x - 4y = -12$

5) $6x + 2y = 11$
 $y = -3x - 8$

6) $x = 9y - 7$
 $-3x + 27y = 21$

7) $2x - 2y = -26$
 $x = -16y + 38$

8) $y = x + 9$
 $-x - 3y = 17$

9) $y = 20x - 85$
 $40x - 2y = 170$

10) $x = -17y + 147$
 $7x - 2y = -60$