M10 - 9.5 - Multiply/Fraction/Decimal Elimination Notes

Solving a system of equations using elimination

1) 2x - 3y = 2	2 x + 2y = 8	Identify equation # 1 Identify equation # 2
	2 2(x+2y=8) 2x+4y=16	Multiply equation #2 by 2
2x - 3y = 2 $-(2x + 4y = 16)$		Line up equations
$0x - 7y = -14$ $-\frac{7y}{7} = -\frac{14}{7}$		Subtract equations to eliminate x
-7 -7 $y = 2$	(2) $x + 2y = 8$ x + 2(2) = 8 x + 4 = 8	Solve Substitute
	x = 4	Solve
	(4,2)	Intersection point:

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