

Classroom Examples for Intermediate Algebra #7

- 1) $2x - y = 11$ and $-2x - 4y = 4$ by graphing $(4, -3)$
- 2) $3x - 5y = 15$ and $6x - 10y = -20$ by graphing no solutions
- 3) $4x - 3y = -6$ and $12x - 9y = -18$ by graphing all real numbers
- 4) $3x + 2y = 4$ and $3x - 3y = -21$ by graphing $(-2, 5)$
- 5) $-3x + 2y - z = -15$ $2x - 3y + 4z = 20$ $4x - y - 5z = 7$ $(2, -4, 1)$
- 6) $-2x - 4y + 3z = -17$ $3x + 3y - z = 7$ $x - 2y + 4z = -17$ $(-3, 5, -1)$
- 7) $4x + 3y - 2z = -9$ $-3x - 2y + 4z = 20$ $2x - 4y + 3z = -1$ $(-2, 3, 5)$