

$$\vec{m} = (-1; 2; -3)$$

$$\vec{n} = (2; 0; -1)$$

$$\vec{p} = (-1; 3; 0)$$

$$2(\vec{m} - \vec{x}) + \vec{n} = \vec{p} - 3\vec{m} + (\vec{n} - \vec{x})$$

$$(-2; 4; -6) - (2x_1; 2x_2; 2x_3) + (2; 0; -1) = (-1; 3; 0) + (3; -6; 9) + (2; 0; -1) - (x_1; x_2; x_3)$$

$$(0; 4; -7) - (2x_1; 2x_2; 2x_3) = (4; -3; 8) - (x_1; x_2; x_3)$$

$$(2x_1; 2x_2; 2x_3) - (x_1; x_2; x_3) = (0; 4; -7) - (4; -3; 8)$$

$$(x_1; x_2; x_3) = (-4; 7; -15)$$

$$\vec{x} = (-4; 7; -15)$$

$$2(\vec{m} - \vec{x}) + \vec{n} = \vec{p} - 3\vec{m} + (\vec{n} - \vec{x})$$

$$(-2; 4; -6) - (2x_1; 2x_2; 2x_3) + (2; 0; -1) = (-1; 3; 0) + (3; -6; 9) + (2; 0; -1) - (x_1; x_2; x_3)$$

$$(0; 4; -7) - (2x_1; 2x_2; 2x_3) = (4; -3; 8) - (x_1; x_2; x_3)$$

$$(2x_1; 2x_2; 2x_3) - (x_1; x_2; x_3) = (0; 4; -7) - (4; -3; 8)$$

$$(x_1; x_2; x_3) = (-4; 7; -15)$$

$$\vec{x} = (-4; 7; -15)$$

$$2(\vec{m} - \vec{x}) + \vec{n} = \vec{p} - 3\vec{m} + (\vec{n} - \vec{x})$$

$$2\vec{m} - 2\vec{x} + \vec{n} = \vec{p} - 3\vec{m} + \vec{n} - \vec{x}$$

$$-2\vec{x} = \vec{p} - 5\vec{m} - \vec{x}$$

$$\vec{x} = 5\vec{m} - \vec{p}$$

$$\vec{x} = (-5; 10; -15) - (-1; 3; 0)$$

$$\vec{x} = (-4; 7; -15)$$