

$$1/ \quad \overset{\checkmark 107}{a^2 - a + 1 + a + 1 = a^2 + 1}$$

$$a^2 - a + 1 - (a + 1) = a^2 - a + 1 - a - 1 = a^2 - 2a$$

$$2/ \quad \underline{x^2 + xy + y^2} + \underline{x^2 - xy + y^2} = 2x^2 + 2y^2$$

$$x^2 + xy + y^2 - (x^2 - xy + y^2) = \underline{x^2 + xy + y^2} - \underline{x^2 - xy + y^2} = 2xy$$

$$3/ \quad \underline{3x + 7y} + \underline{2x - 5y} = 5x + 2y$$

$$3x + 7y - (2x - 5y) = \underline{3x + 7y} - \underline{2x - 5y} = x + 12y$$

$$4/ \quad \underline{8a + 9b - 10c} + \underline{9a - 10b + 11c} = 17a - b - c$$

$$8a + 9b - 10c - (9a - 10b + 11c) = \underline{8a + 9b - 10c} - \underline{9a - 10b + 11c} = -a + 19b - 21c$$