

23. 11. 2020.

Бездоме

Задание 320 $120(a), (b), 149, (202(e), 210(a))$ - решение

$$120.2) (4x-3) \cdot (5x+4) - (2x+1) \cdot (6x-1) = 1$$

$$12x^2 + 16x - 9x - 12 - (12x^2 - 2x + 6x - 1) = 1$$

$$\cancel{12x^2} + 16x - 9x - 12 - \cancel{12x^2} + 2x - 6x + 1 = 1$$

$$16x - 9x + 2x - 6x = 1 + 12 - 1$$

$$3x = 12$$

$$x = 4$$

$$b) (3-5x)^2 + (1+12x)^2 = (13x-2)^2 + 6$$

$$9 - 30x + 25x^2 + 1 + 24x + 144x^2 = 169x^2 - 52x + 4 + 6$$

$$\cancel{25x^2} + \cancel{144x^2} - \cancel{169x^2} - 30x + 24x + 52x = 4 + 6 - 9 - 1$$

$$-30x + 24x + 52x = 4 + 6 - 9 - 1$$

$$48x = 0$$

$$x = 0$$

$$149. \quad x + 22 = 4 \cdot (x - 8)$$

$$x + 22 = 4x - 32$$

$$x - 4x = -32 - 22$$

$$-3x = -54$$

$$x = 18$$