

Q 213

$$3 \cdot [x + 10 + 2 \cdot (3x - 5)] + 4 = -3 \cdot (3x - 1) + 9 \cdot (2 + 6)$$

$$3 \cdot [x + 10 + 6x - 10] + 4 = -9x + 3 + 18 + 54x + 5 =$$

$$15x + 4 = -9x + 3 + 18 + 54x + 5 =$$

$$15x + 9x - 54x = -4 + 3 + 18 + 5 =$$

$$-30x = 22$$

$$x = -\frac{11}{15}$$

Q 214

$$\{[3(2^2x + 2) + x] - [(3 - 2)x + 2x + 1]\} + 1 = 13x$$

$$\{[3 \cdot (4x + 2) + x] - [1x + 2x + 1]\} + 1 = 13x$$

$$\{[12x + 6 + x] - [3x + 1]\} + 1 = 13x$$

$$\{[13x + 6] - [3x + 1]\} + 1 = 13x$$

$$\{13x + 6 - 3x - 1\} + 1 = 13x$$

$$10x + 5 + 1 = 13x$$

$$10x - 13x = -6$$

$$-3x = -6$$

$$x = 2$$