

$$1 \log (2+1) = \log (2+1) = \log (3)$$

$$\log (2+1)^2 = \log (3)^2 = \log (9)$$

$$\log (2+1) = \log (3)$$

$$2x^2 + 18x + 12 = x^2 + 12x + 12$$

$$x^2 + 6x = 0 \quad x^2 = 0 \quad x = 0$$

$$2x^2 + 12x + 12 = 0$$

$$a = 2 \quad b = 12 \quad c = 12$$

$$x = \frac{-12 \pm \sqrt{144 - 4(2)(12)}}{2(2)}$$

$$x = \frac{-12 \pm \sqrt{144 - 96}}{4}$$

$$x = \frac{-12 \pm \sqrt{48}}{4}$$

$$x = \frac{-12 \pm 4\sqrt{3}}{4}$$

$$x = \frac{-12 + 4\sqrt{3}}{4}$$

$$x = \frac{-12 - 4\sqrt{3}}{4}$$

$$x = -3 + \sqrt{3}$$

$$x = -3 - \sqrt{3}$$