

$$b) \quad y = x^2 + 2x + 2 \quad (1)$$

$$y = 2x^2 + 11x + 10 \quad (2)$$

$$(2) - (1)$$

$$0 = x^2 + 9x + 8$$

$$(x + 8)(x + 1)$$

$$x + 8 = 0 \quad x + 1 = 0$$

$$x = -8$$

$$x = -1$$

$$-8 \rightarrow (1)$$

$$-1 \rightarrow (1)$$

$$y = 50$$

$$y = 1$$

$$c) \quad 9x^2 - 4x - 5 = 0$$

$$a = 9 \quad b = -4 \quad c = -5$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$x = \frac{4 \pm \sqrt{16 - 4(9)(-5)}}{18}$$

$$2a$$

$$x = \frac{4 \pm 14}{18}$$

$$x = \frac{4 + 14}{18}$$

$$x = \frac{4 - 14}{18}$$

$$x = 1.00$$

$$x = -0.56$$

$$di) \quad x^2 + 11x + 30 = 0$$

$$(x + 6)(x + 5)$$

$$x + 6 = 0 \quad x + 5 = 0$$

$$x = -6$$

$$x = -5$$

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