

チエーテスト

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1. (7) $x(x-4) + x - 10$

$$= x^2 - 4x + x - 10$$

$$= x^2 - 3x - 10$$

$$= (x-5)(x+2) \quad (4)$$

(1) $x^2 - 17x + 1 = 0$

$$x = \frac{17 \pm \sqrt{49-4}}{2}$$

$$x = \frac{17 \pm \sqrt{45}}{2}$$

$$x = \frac{17 \pm 3\sqrt{5}}{2} \quad (4)$$

(7) A(-6, 2) B(3, -1)

$$x: 3 - (-6) = 9$$

$$x_2 - x_1$$

$$y: 2 - (-1) = 3$$

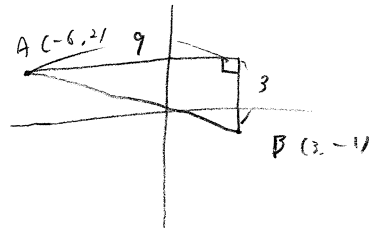
$$y_2 - y_1$$

$$d = \sqrt{9^2 + 3^2}$$

$$= \sqrt{81 + 9}$$

$$= \sqrt{90}$$

$$= 3\sqrt{10} \text{ cm} \quad (4)$$



(1) $x^2 + 4 = 2x + 4 + 8$

$$x^2 - 2x - 8 = 0$$

$$x = 4 \quad (4)$$

$$(x-4)(x+2) = 0$$

$$x = -2, 4$$

$$4^2 + 4 = 4 \times 2 + 4$$

$$= 20$$

$$= 12$$

$$-8$$

$$\triangle AFD \sim \triangle EFB$$

$$2 : 1$$

$$AF : EF : AE = 2 : 1 : 3$$

(7) $\triangle FBE = \frac{1}{3} \triangle ABE$

$$= \frac{1}{3} \times \frac{1}{2} \triangle ABC$$

$$= \frac{1}{3} \times \frac{1}{2} \times \frac{1}{2} \square ABCD$$

$$= \frac{1}{12} \square ABCD$$

$$\frac{1}{12} \text{ ④}$$

