

Quest ①

$$a) = \sqrt{\frac{3^2 + 12^2}{87}}$$

$$= \sqrt{\frac{153}{87}}$$

$$= \sqrt{1.7586207}$$

$$= 1.32613$$

$$= 1.33.$$

$$b). \quad |x + 3| < 2$$

$$|x + 3| < -2.$$

$$x < -1$$

$$x < -5.$$

$$-5 < x < -1.$$



$$c). \quad x^2 - 2x - 8 = 0.$$

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

$$x = 4 \text{ or } -2.$$

$$d). \quad 3 + \frac{1}{x} = 3 + x^{-1}$$

$$= 3x - \frac{1}{x^2}$$

$$= 3x - \frac{1}{x^2}$$

$$e). \quad \frac{x}{x^2 - 4} + \frac{2}{x - 2}.$$

$$= \frac{x^2 - 2x + 2x^2 - 8}{2x}.$$

$$= \frac{3x^2 - 2x - 8}{2x}.$$



f).

~~$10x + x = 979$~~

$$\frac{10}{100}x + x = 979.$$

$$x = 977.9$$

$$= \$977.90$$