

# 2B 領域 3

次の連立不等式の表す領域を図示せよ。

$$\begin{cases} x^2 + y^2 \leq 4 \\ x - 2y + 2 \geq 0 \end{cases}$$

$$x = 2y - 2$$

$$(2y - 2)^2 + y^2 = 4$$

$$4y^2 - 8y + 4 + y^2 = 4$$

$$5y^2 - 8y = 0$$

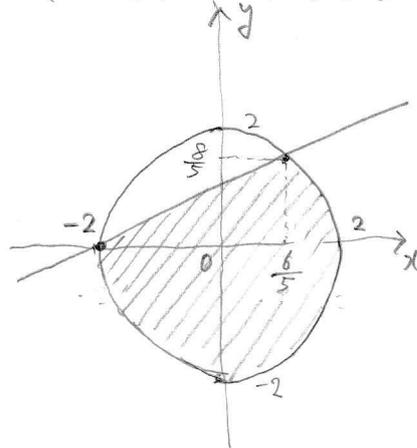
$$y(5y - 8) = 0$$

$$y = 0, \frac{8}{5}$$

$$y = 0 \text{ のとき } x = -2$$

$$y = \frac{8}{5} \text{ のとき } x = \frac{6}{5}$$

答 下図. 境界線を含む.



$$-2y \geq -x - 2$$

$$y \leq \frac{1}{2}x + 1$$