

# 岡山理科 2020 数学

1 (1)  $x < -5, x > 4$

(2)  $-6 < x < -2$

(3)  $x = 11, 0$

2 (1)  $\frac{1}{6}$

(2)  $\frac{13}{18}$

(3)  $\frac{35}{54}$

(4)  $E_{n+1} = \frac{1}{6} E_n + \frac{5}{6} O_n$

3 (1)  $\frac{3}{10}$

(2)  $(h, c) = (3, 3)$

(3)  $(h, c) = (17, 19)$

4 (1) 商  $x^2 + (n+3)x + n^2 + 3n + 2$ , 余り 0.

(2)  $\frac{1}{30}$

(3)  $-2, -1, 0$

5 (1)  $b_{n+1} = 3b_n + 4$

(2)  $a_n = 2^{4 \cdot 3^{n-1} - 2}$

(3)  $p_n = 2^{2 \cdot 3^n - 2n - 2}$

(4)  $n = 5$