

1.

(ア) $(x+y-1)(x-2y+2)$

(イ) $2\sqrt{2}$

(ウ) 0

(エ) 2

(オ) $\frac{e^2+3}{2}$

(カ) $0 < a < \frac{4}{3}$

(キ) $\sqrt{17}-1$

(ク) $2\sqrt{17}-1$

(オ) k^2+k

(カ) 11

(キ) 131

(ク) $\sqrt{2}$

2.

(ア) $x^2(x-3)^2$

(イ) $\frac{3}{2}$

(ウ) $\frac{81}{16}$

(エ) $-\frac{140}{27}$

(オ) $\frac{28}{27}$

(カ) 2

(キ) $\frac{5-\sqrt{33}}{4}$

(ク) $\frac{5+\sqrt{33}}{4}$

3.

(ア) 12

(イ) 31

(ウ) 56

(エ) k^2-k+1