

1 (1) $(2x + 3)(2x - 3)$

(2) $(x - 3)(3x + 2)$

2 $y = 2(x + 2)^2 + 1$

または $y = 2x^2 + 8x + 9$

3 $\sin \theta = \frac{2\sqrt{2}}{3}, \quad \tan \theta = -2\sqrt{2}$

4 $A = 120^\circ$

5 $A \cap B = \{12\} \quad A \cup B = \{3, 4, 6, 8, 9, 12, 15, 16, 18, 20\}$

$\bar{A} \cap \bar{B} = \{1, 2, 5, 7, 10, 11, 13, 14, 17, 19\}$

6 (1) 60 通り

(2) 36 通り

7 $\frac{1}{36}$