

**1**

(1) $(x+1)^2 - 8$	(2) $(x-2)^2 - 2$	(3) $(x-3)^2 + 4$
(4) $(x+3)^2 + 1$	(5) $(x+7)^2 - 47$	(6) $(x+2)^2 - 15$

**2**

ア 3	イ 16	ウ 4
エ 19	オ $\pm\sqrt{19}$	カ $-4 \pm \sqrt{19}$

**3**

(1) $x = 3 \pm 2\sqrt{3}$	(2) $x = -4 \pm \sqrt{6}$	(3) $x = 1 \pm \sqrt{17}$
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**4**

ア $-b$	イ $b^2 - 4ac$	ウ $2a$
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**5**

(1) $a = 2$	$b = -3$	$c = 5$
(2) $a = -1$	$b = -9$	$c = 12$

**6**

(1) $x = \frac{-5 \pm \sqrt{17}}{2}$	(2) $x = -5 \pm 4\sqrt{2}$	(3) $x = -2, -\frac{2}{3}$
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**7**

(1) $x = 7, -\frac{3}{4}$	(2) $x = 0, 6$	(3) $x = -1, 16$
(4) $x = 3$	(5) $x = -1, 3$	(6) $x = \pm\sqrt{7}$
(7) $x = 1 \pm \sqrt{6}$	(8) $x = -3, 9$	(9) $x = \frac{1 \pm \sqrt{33}}{8}$