

a > 1

FACTOR KEY

Review about signs

Last sign \oplus $(- + -)(- + -)$ first sign \oplus EX: $5x^2 + 21x + 4 = 0$
 $(- - -)(- - -)$ first sign \ominus EX: $3x^2 - 8x + 5 = 0$
 \ominus $(- + -)(- - -)$ EX: $3x^2 + 20x - 7 = 0$
 $2x^2 - 7x - 9 = 0$

Factor:

- ① $3x^2 - 8x + 5 = 0$
 $(3x - 5)(x - 1) = 0$
- ② $5x^2 + 21x + 4 = 0$
 $(5x + 1)(x + 4) = 0$
- ③ $3x^2 + 20x + 12 = 0$
 $(3x + 2)(x + 6) = 0$
- ④ $2x^2 + 9x - 5 = 0$
 $(2x - 1)(x + 5) = 0$
- ⑤ $7x^2 - 6x - 1 = 0$
 $(7x + 1)(x - 1) = 0$
- ⑥ $3x^2 - 10x + 7 = 0$
 $(3x - 1)(x - 7) = 0$

Solve:

$$\textcircled{7} 2x^2 - 3x - 5 = 0$$
$$(2x - 5)(x + 1) = 0$$

$$\textcircled{8} 10x^2 + 23x + 6 = 0$$
$$(10x + 3)(x + 2) = 0$$

$$\textcircled{9} 2x^2 + 3x - 9 = 0$$
$$(2x - 3)(x + 3) = 0$$

$$\textcircled{10} 3x^2 + 20x - 7 = 0$$
$$(3x - 1)(x + 7) = 0$$

$$\textcircled{11} 3x^2 - 8x + 5 = 0$$
$$(3x - 5)(x - 1) = 0$$

$$\textcircled{12} 3x^2 + 14x + 8 = 0$$
$$(3x + 2)(x + 4) = 0$$

$$\textcircled{13} 2x^2 - x - 15 = 0$$
$$(2x + 5)(x - 3) = 0$$

$$\textcircled{14} 6x^2 + x - 12 = 0$$
$$(3x - 4)(2x + 3) = 0$$