

9-5-19 4^{ta} Trig

① $x^2 + \square x + 20$

$(x+1)(x+20)$

$(x+4)(x+5)$

$(x+2)(x+10)$

$\frac{20}{1, 20}$

$2, 10$

$4, 5$

② $x^2 + \square x + 12$

13x $(x+1)(x+12)$

8x $(x+2)(x+6)$

7x $(x+3)(x+4)$

$\frac{12}{1, 12}$

$2, 6$

$3, 4$

③ Factor $x^2 + 11x + 30$

$(x+5)(x+6)$

31x $\frac{30}{1, 30}$

17x $\frac{30}{2, 15}$

13x $\frac{30}{3, 10}$

11x $\frac{30}{5, 6}$

④ $\underline{5}x^2 + \square x + \underline{6}$

11x $(x+1)(5x+6)$

31x $(x+6)(5x+1)$

13x $(x+2)(5x+3)$

17x $(x+3)(5x+2)$

$\frac{5}{1, 5}$

$\frac{6}{1, 6}$

$2, 3$

⑤ $\underline{2}x^2 + \square x + \underline{15}$

$17x (x+1)(2x+15)$
 $31x (x+15)(2x+1)$
 $11x (x+3)(2x+5)$
 $13x (x+5)(2x+3)$

$\frac{2}{1,2} \rightarrow \frac{15}{1,15}$
 $\frac{2}{3} \rightarrow \frac{15}{3,5}$

⑥ $\underline{7}x^2 + \square x + \underline{9}$

$16x (x+1)(7x+9)$
 $64x (x+9)(7x+1)$
 $24x (x+3)(7x+3)$

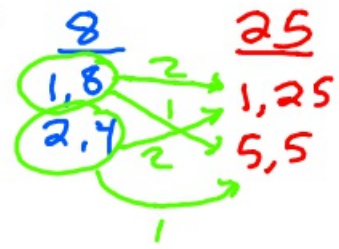
$\frac{7}{1,7} \rightarrow \frac{9}{1,9}$
 $\frac{7}{3} \rightarrow \frac{9}{3,3}$

⑦ $\underline{6}x^2 + \square x + \underline{7}$

$(x+1)(6x+7)$
 $(x+7)(6x+1)$
 $(2x+1)(3x+7)$
 $(2x+7)(3x+1)$

$\frac{6}{1,6} \rightarrow \frac{7}{1,7}$
 $\frac{6}{2,3} \rightarrow \frac{7}{1,7}$

$$\textcircled{8} \quad \underline{8}x^2 + \square x + \underline{25}$$



$$33x (x+1)(8x+25)$$

$$201x (x+25)(8x+1)$$

$$45x (x+5)(8x+5)$$

$$54x (2x+1)(4x+25)$$

$$102x (2x+25)(4x+1)$$

$$30x (2x+5)(4x+5)$$

$$\textcircled{9} \quad \underline{9}x^2 + \square x + \underline{20}$$



$$(x+1)(9x+20)$$

$$(x+20)(9x+1)$$

$$(x+2)(9x+10)$$

$$(x+10)(9x+2)$$

$$(x+4)(9x+5)$$

$$(x+5)(9x+4)$$

$$(3x+1)(3x+20)$$

$$(3x+2)(3x+10)$$

$$(3x+4)(3x+5)$$