

9-19-19 4th Trig

Factor $x^2 - 25$

$$x^2 + 0x - 25$$
$$(x - 5)(x + 5) \quad \begin{array}{l} 25 \\ 1, 25 \\ -5, 5 \end{array}$$

1, 4, 9, 16, 25, 36, 49, 64, 81, 100, 121

Ch. 2 PT 1 Questions

25) $\frac{x-4}{x^2-13x+30}$

$$x^2 - 13x + 30 \neq 0 \quad \begin{array}{l} 30 \\ 1, 30 \\ 2, 15 \\ -3, 10 \end{array}$$

$$(x-3)(x-10) \neq 0$$

$$x-3 \neq 0 \quad x-10 \neq 0$$

$$x \neq 3 \quad x \neq 10$$

26) $4x^2 + 12xy + 9y^2$

$$4x^2 + 12xy + 9y^2 \quad \begin{array}{l} 4 \\ 1, 4 \\ 2, 2 \end{array} \quad \begin{array}{l} 9 \\ 1, 9 \\ 3, 3 \end{array}$$

$$13 (x+1)(4x+9)$$

$$37 (x+9)(4x+1)$$

$$15 (x+3)(4x+3)$$

$$20 (2x+1)(2x+9)$$

$$12 (2x+3y)(2x+3y)$$

26) $a-3 \overline{) a^2+a-12}$

$$\begin{array}{r} a+4 \\ a-3 \overline{) a^2+a-12} \\ \underline{-(a^2-3a)} \\ 4a-12 \\ \underline{-(4a-12)} \\ 0 \end{array}$$

36) $9n^2 + \square n + 16$

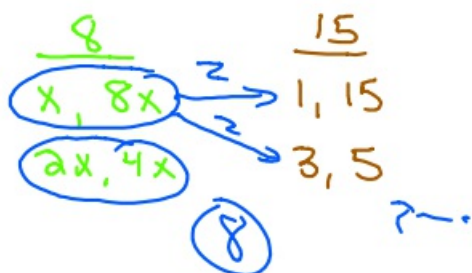
$$\begin{array}{l} 9 \\ 1, 9 \\ 3, 3 \end{array} \quad \begin{array}{l} 16 \\ 1, 16 \\ 2, 8 \\ 4, 4 \end{array}$$

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$$\textcircled{13} \quad 27n^3y - 18ny$$

$$9ny(3n^2 - 2)$$

$$8n^2 + \square n + 15$$



$$10x^2 + \square x + 6$$

$$5x^2 + \square x + 12$$

$$9x^2 + \square x + 10$$



$$8x^2 + \square x + 20$$

$$7x^2 + \square x + 12$$