

$$57 - 61 \rightarrow A$$

$$52 - 56 \Rightarrow B$$

$$44 - 51 \rightarrow C$$

$$40 - 43 \rightarrow D$$

$$39 \downarrow \rightarrow E$$

61*.84	56.73
61*.72	51.24
61*.64	43.92
■	39.04

find the product by any method

$$5. (4x+3)(6x^2)$$

$$\underline{\underline{24x^3 + 18x^2}}$$

Find the Sum or Difference by any method of your choosing.

1. $(2x^2 + 3x + 5) + (-x^2 + 4x - 7)$

$$\begin{array}{r} \underline{2x^2 + 3x + 5} + \underline{-x^2 + 4x - 7} \\ x^2 + 7x - 2 \end{array}$$

$$2. (5x^2 + 8x + 5) - (2x^2 - 3x + 2)$$

$$\begin{array}{r} \cancel{5x^2} + \cancel{8x} + \cancel{5} - \cancel{2x^2} + \cancel{3x} - \cancel{2} \\ \underline{\quad\quad\quad} \\ 3x^2 + 11x + 3 \end{array}$$

important: remember the cookbook.

$$\begin{array}{l} \begin{array}{l} 1 \cdot 6 \\ 2 \cdot 3 \end{array} \\ 2 \cdot 12x^2 + 14x + 4 \quad 1 \cdot 2 \\ 2(6x^2 + 7x + 2) \\ \underline{\underline{2(2x+1)(3x+2)}} \end{array}$$

$$13. (2x+1)^2 = 0$$

$$(2x+1)(2x+1) = 0$$

$$2x+1=0 \quad \text{or} \quad 2x+1=0$$

$$\frac{-1-1}{2} \quad x = -\frac{1}{2}$$

23. $3x^3 + 9x^2 + 2x$

$x(3x^2 + 9x + 2)$

~~Handwritten scribbles in grey ink below the blue lines.~~

9. $(x+5)(x-5)$

$$x^2 - 5x + 5x - 25$$
$$\underline{\underline{x^2 - 25}}$$

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15. $x^2 - 3x - 40$

1·40
2·20
4·10
5·8

$(x + 5)(x - 8)$

$$31. \quad 4x^2 + 10x + 6 = 0$$

31. _____

$$2(2x^2 + 5x + 3) = 0$$

32. _____

$$2(x+1)(2x+3) = 0$$

33. _____

$$\begin{array}{l} x+1=0 \\ -1-1 \\ \hline x=-1 \end{array} \quad \text{or} \quad \begin{array}{l} 2x+3=0 \\ -3-3 \\ \hline 2x=-3 \\ \frac{2x}{2} = \frac{-3}{2} \\ x = -\frac{3}{2} \end{array}$$

27.

1.30

2.15

3.10

28.

29. $x^2 - 11x + 30 = 0$ 5.6

29. $(x - 5)(x - 6) = 0$

30. $x - 5 = 0$ or $x - 6 = 0$

$+5 +5$ $+6 +6$

$x = 5$ or $x = 6$ 31.

$x^2 + 10x + 6 = 0$

25. _____

$$25. x^3 - x^2 + 5x - 5$$

1.5

$$\underline{\underline{(x^2 + 5)(x - 1)}}$$

7. $(4x-5)(x+2)$ 8. (

$$\begin{array}{r} 4x^2 + 8x - 5x - 10 \\ \hline 4x^2 + 3x - 10 \end{array}$$

27. $x^2 + 9x + 20 = 0$ ^{1.00} 2.10 4.5

(x + 4)(x + 5) = 0

26. _____

27. _____

$x + 4 = 0$ or $x + 5 = 0$

28.