

8-19-19 1st Trig

$$\begin{array}{r} 52 \\ \hline 7 \\ \hline 45 \end{array} \quad \leftarrow ab$$

$$10a + b - (a + b)$$

$$10a + b - a - b$$

$$9a$$

$$\textcircled{1} \quad \boxed{3n^2y} + \underline{2ny^2} + \underline{5ny^2} + \boxed{2n^2y}$$

$$5n^2y + 7ny^2$$

$$\textcircled{2} \quad \begin{array}{c} \curvearrowright \quad \curvearrowleft \\ 2(ny + a) - 3(ny - a) \end{array}$$

$$\underline{2ny} + \underline{2a} - \underline{3ny} + \underline{3a}$$

$$-ny + 5a$$

$$\textcircled{3} \quad \underline{2ab} + \underline{3a^2b} + \underline{4ab^2} + \underline{6ab} + \underline{7ab^2}$$

$$8ab + 3a^2b + 11ab^2$$

$$(\text{Mr. H} + \text{Mrs. H}) (\text{Mr. P} + \text{Mrs. P})$$

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

$$x^2 + 5x + 3x + 15$$

$$x^2 + 8x + 15$$

$$\textcircled{4} (n+10)(n-2)$$

$$n^2 - 2n + 10n - 20$$

$$n^2 + 8n - 20$$

$$\textcircled{5} (n+2)(n^2 + 3n + 5)$$

$$n^3 + 3n^2 + 5n + 2n^2 + 6n + 10$$

$$n^3 + 5n^2 + 11n + 10$$

$$\textcircled{6} (2n^2)^3 + (6n^3)^2$$

$$2n^2 \cdot 2n^2 \cdot 2n^2 + 6n^3 \cdot 6n^3$$
$$2nn \cdot 2nn \cdot 2nn + 6nnn \cdot 6nnn$$
$$8n^6 + 36n^6$$

$$44n^6$$

$$\textcircled{7} \quad 2x(3x-1) - 2(x-4)$$

$$6x^2 - 2x - 2x + 8$$

$$6x^2 - 4x + 8$$

$$\textcircled{8} \quad (2n+3) + (4n+10)$$

$$2n+3+4n+10$$

$$6n+13$$

8-19-19 3rd Try

$$\begin{array}{r} 32 \\ -5 \\ \hline 27 \end{array}$$

$$\begin{array}{l} ab \\ 10a + b - (a+b) \\ 10a + \cancel{b} - a - \cancel{b} \end{array}$$

$9a \leftarrow$ Multiple of 9

$$\textcircled{1} \quad 2ny^2 + 4n^2y + 6ny^2 + 2ny + 8n^2y$$

$$8ny^2 + 12n^2y + 2ny$$

$$\textcircled{2} \quad 2(x^2+4) + 3(x^2+2x+10)$$

$$2x^2 + 8 + 3x^2 + 6x + 30$$

$$5x^2 + 6x + 38$$

$$(Mr. H + Mrs. H) (Mr. Smith + Mrs. Smith)$$

$$\textcircled{3} \quad (n+4)(n+10)$$

$$n^2 + 10n + 4n + 40$$

$$n^2 + 14n + 40$$

$$\textcircled{4} (n+5)(n^2+5n+2)$$

$$n^3 + 5n^2 + 2n + 5n^2 + 25n + 10$$

$$n^3 + 10n^2 + 27n + 10$$

$$\textcircled{5} (2n-1)(3n-4)$$

$$6n^2 - 8n - 3n + 4$$

$$6n^2 - 11n + 4$$

$$\textcircled{6} (2n^2)^3 + (5n^3)^2$$

$$2n^2 \cdot 2n^2 \cdot 2n^2 + 5n^3 \cdot 5n^3$$

$$2nn \cdot 2nn \cdot 2nn + 5nnn \cdot 5nnn$$

$$8n^6 + 25n^6$$

$$33n^6$$

$$\textcircled{7} (2n^2)^2 (3n)^2 + (4n^3)^2 (n^2)^2$$

$$2n^2 \cdot 2n^2 \cdot 3n \cdot 3n + 4n^3 \cdot 4n^3 \cdot n^2 \cdot n^2$$

$$36n^6 + 16n^{10}$$

8-19-19 4th Trig

$$\begin{array}{r} 52 \\ - 7 \\ \hline 45 \end{array}$$

$$\begin{array}{l} ab \\ 10a + b - (a + b) \\ 10a + \cancel{b} - a - \cancel{b} \\ 9a \end{array}$$

♡

$$\textcircled{1} \quad \underline{2ab^2} + \underline{3a^2b} + 4ab + \underline{5a^2b} + \underline{6ab^2}$$
$$8ab^2 + 8a^2b + 4ab$$

$$\textcircled{2} \quad \underline{2n(n^2+3)} + \underline{4n(n^2-1)}$$
$$2n^3 + 6n + 4n^3 - 4n$$
$$6n^3 + 2n$$

$$(\text{Mr. H} + \text{Mrs. H}) (\text{Mr. Smith} + \text{Mrs. Smith})$$

$$\textcircled{3} \quad (\underline{2n+5})(\underline{3n-1})$$
$$6n^2 - 2n + 15n - 5$$
$$6n^2 + 13n - 5$$

$$\textcircled{4} \quad (2n^2)^3 + (4n^3)^2$$
$$2n^2 \cdot 2n^2 \cdot 2n^2 + 4n^3 \cdot 4n^3$$
$$2nn \ 2nn \ 2nn + 4nnn \ 4nnn$$
$$8n^6 + 16n^6$$
$$24n^6$$

$$\textcircled{5} \quad (2n-1) + (3n-4)$$

$$2n-1 + 3n-4$$

$$5n-5$$

$$\textcircled{6} \quad (2n)^2 (3n^2)^2 + 5 \underset{nn}{n^3} \cdot \underset{nn}{3n^2}$$

$$2n \cdot 2n \cdot 3n^2 \cdot 3n^2 + 15n^5$$

$$36n^6 + 15n^5$$