Assignment

Simplify each expression.

1) $\left(3x^4 + 8x^3 + x^2\right) - \left(13x^2 - 10x^4 + 2x^3\right)$

2) $\left(4b^2 - 10b^3 - 12b\right) + \left(-13b - 4b^3 + 10b^2\right)$

3) $\left(9n - 11n^4 - 10n^3\right) + \left(-7n^4 - 14n - 7n^3\right)$

4) $\left(3n - 8n^5 - 10\right) + \left(-1 + 4n^5 - 14n\right)$

5) $\left(5p^3 - 3p^5 - 4\right) + \left(6p^5 - 13 - 5p^3\right)$

6) $\left(9r + 9r^2 - 13r^4\right) + \left(-13r - 13r^4 - 9r^2\right)$

7) $\left(-2 - 10v^4 + 7v^5\right) - \left(13v^4 - 10 - 2v^5\right)$

8) $\left(13x^2 + 5 - 5x\right) - \left(12 - 2x + x^2\right)$

9) $\left(-3x^5 + 11x - 4\right) - \left(-13 - 13x + 10x^4\right)$

10) $\left(9m^5 - 13m^3 - m^4\right) - \left(-8m + 8m^5 + 3m^4\right)$

11) $\left(\dfrac{1}{2}x^3 - \dfrac{1}{4}x\right) + \left(x - 5\dfrac{4}{5}x^3\right)$

12) $\left(2 + a^3\right) + \left(\dfrac{1}{2} + 2a^3\right)$

13) $\left(\dfrac{1}{2} - \dfrac{2}{5}m\right) - \left(1\dfrac{1}{2}m - \dfrac{3}{4}\right)$

14) $\left(1\dfrac{4}{5} + 2\dfrac{2}{5}x\right) - \left(1\dfrac{1}{2} + 2\dfrac{2}{5}x\right)$

15) $\left(2\dfrac{1}{5} - 2b^3\right) + \left(4\dfrac{1}{3} + \dfrac{4}{5}b^3\right)$

16) $\left(\dfrac{2}{5}x^4 + \dfrac{1}{5}x^3\right) - \left(x^3 - 1\dfrac{4}{5}x^4\right)$

17) $\left(\dfrac{2}{5}b^4 + 1\dfrac{2}{3}b^2\right) + \left(2b^2 - \dfrac{2}{5}\right)$

18) $\left(1\dfrac{1}{4}v^4 - 3\dfrac{1}{2}v\right) - \left(\dfrac{4}{5}v^4 + 2\dfrac{1}{2}v\right)$

19) $\left(2\dfrac{3}{4}b^2 - 1\right) - \left(1\dfrac{1}{5}b^2 - 2\dfrac{1}{4}\right)$

20) $\left(5n^3 - n\right) + \left(\dfrac{1}{2}n - n^3\right)$

Answers to Assignment

1) $13x^4 + 6x^3 - 12x^2$ 2) $-14b^3 + 14b^2 - 25b$ 3) $-18n^4 - 17n^3 - 5n$ 4) $-4n^5 - 11n - 11$

5) $3p^5 - 17$ 6) $-26r^4 - 4r$ 7) $9v^5 - 23v^4 + 8$ 8) $12x^2 - 3x - 7$

9) $-3x^5 - 10x^4 + 24x + 9$ 10) $m^5 - 4m^4 - 13m^3 + 8m$

11) $-5\dfrac{3}{10}x^3 + \dfrac{3}{4}x$

12) $3a^3 + 2\dfrac{1}{2}$ 13) $-1\dfrac{9}{10}m + 1\dfrac{1}{4}$ 14) $\dfrac{3}{10}$ 15) $-1\dfrac{1}{5}b^3 + 6\dfrac{8}{15}$

16) $2\dfrac{1}{5}x^4 - \dfrac{4}{5}x^3$ 17) $\dfrac{2}{5}b^4 + 3\dfrac{2}{3}b^2 - \dfrac{2}{5}$ 18) $\dfrac{9}{20}v^4 - 6v$ 19) $1\dfrac{11}{20}b^2 + 1\dfrac{1}{4}$

20) $4n^3 - \dfrac{1}{2}n$