

Name : _____

Subtracting Polynomials

Single-variable: L2S1

Arrange and subtract the polynomials.

1) $\left(\frac{1}{5}r^4 - 3r - \frac{5}{8}r^3\right) - \left(\frac{7}{8} - \frac{3}{8}r^3 + 5r + \frac{4}{5}r^4\right)$

2) $\left(-\frac{5}{7}a^2 - \frac{2}{3}a^5 - \frac{4}{9}a^4 - \frac{1}{2}a^3\right) - \left(\frac{1}{3} + a^5 + a^4 + a^2\right)$

3) $(-v^5 - 7v^3 + v^2 + v^4 - 8v$

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$+ 7g^2 - 9 + \frac{3}{7}g + \frac{6}{7}g^4)$

5) $\left(\frac{1}{7}s^2 + \frac{1}{9}s + 35 + 2s^3\right) -$

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

7) $\left(\frac{2}{7}n^3 + n^4 + \frac{4}{7}n^6 + \frac{5}{6}n^2 + 2n^5\right) - (-4n^2 + 15 + 6n^4)$

8) $\left(6y^2 - 4 - \frac{8}{9}y^4 + \frac{4}{9}y^5\right) - \left(-y^4 - y^5 - \frac{1}{9}y^2 - y^3 - 4\right)$