Name : _____

Adding Polynomials

Multi-variable: L2S2

Add the polynomials.

1) $p^3q^2 + 4pqr + \frac{5}{7}p + 7$, $-\frac{3}{7}pqr - 2p^3q^2 - 1 - \frac{5}{7}p$

2) $21x + 3z^2 - \frac{2}{5}$, $-6w^2x^3y^2 - 5yz - 21x - 3z^2 + \frac{2}{5}$

3) $-r^5 - 24s^2 - r - s^3 - 3s^4$

$\frac{6}{7}c^2d$, $\frac{6}{7}b^5 + \frac{1}{8}b^2 + \frac{5}{8}a^6b$

5) $\frac{4}{9}n^6 + \frac{3}{5}mn^2 + \frac{5}{6}m -$

$\frac{7}{8}tu - \frac{1}{9} + \frac{2}{3}st + \frac{4}{5}stu$

7) $\frac{3}{4}v + \frac{4}{7} + \frac{2}{9}w + uv + v^3$, $\frac{8}{9}w + 8 + 4v^3 + uv + v$

8) $-17h - \frac{1}{2}g^3h^5 - 14 + 28g$, $17h - 28g + 10$

Name : _____

Answer key

Adding Polynomials

Multi-variable: L2S2

Add the polynomials.

1) $p^3q^2 + 4pqr + \frac{5}{7}p + 7$, $-\frac{3}{7}pqr - 2p^3q^2 - 1 - \frac{5}{7}p$

$-p^3q^2 + \frac{25}{7}pqr + 6$

2) $21x + 3z^2 - \frac{2}{5}$, $-6w^2x^3y^2 - 5yz - 21x - 3z^2 + \frac{2}{5}$

$-6w^2x^3y^2 - 5yz$

3) $-r^5 - 24s^2 - r - s^3 - 3s^4$

$-16r^5 - 12s^4 - 2s^3 - 2$

$\frac{6}{7}b^5 + \frac{1}{8}b^2 + \frac{5}{8}a^6b$

$^2b^3 - \frac{1}{6}bc^2d + \frac{1}{8}b^2 - \frac{7}{9}a$

5) $\frac{4}{9}n^6 + \frac{3}{5}mn^2 + \frac{5}{6}m -$

$n^6 + \frac{3}{5}mn^2 + \frac{3}{4}n - 4$

$\frac{7}{8}tu - \frac{1}{9} + \frac{2}{3}st + \frac{4}{5}stu$

7) $\frac{3}{4}v + \frac{4}{7} + \frac{2}{9}w + uv + v^3$, $\frac{8}{9}w + 8 + 4v^3 + uv + v$

$5v^3 + 2uv + \frac{7}{4}v + \frac{10}{9}w + \frac{60}{7}$

8) $-17h - \frac{1}{2}g^3h^5 - 14 + 28g$, $17h - 28g + 10$

$-\frac{1}{2}g^3h^5 - 4$