

Name : _____

Adding Polynomials

Multi-variable: L1S3

Arrange and add the polynomials.

1) $8g^3h - 6k^2 + gh^2 + 3g^5 + 4h$, $g^3h - 5gh^2 + h$ 2) $4s^3 - s^2t^3 - st + st^4u^2$, $-s^2t^3 + st^4u^2 - 8st$

3) $7u^4v + vwx - u^6 - w^3$, $-32 - 3q^2 - 7p - p^5qr$

5) $d^3 + 8b^6 + 4b^5c$, b^5 , y^4 , $6yz - x^3 - y^5 - x^6 + y^4$

7) $-39q^5r^3s^2 + 32 + 6p$, $-32 - 6p + 39q^5r^3s^2$ 8) $n + m + mn^6 + 6n^6$, $-8n^6 - mn^6 - m - 9 - 2n$

PREVIEW

Gain complete access to the largest
collection of worksheets in all subjects!

Members, please
log in to
download this
worksheet.

Not a member?
Please sign up to
gain complete
access.

www.mathworksheets4kids.com

Name : _____

Answer key

Adding Polynomials

Multi-variable: L153

Arrange and add the polynomials.

1) $8g^3h - 6k^2 + gh^2 + 3g^5 + 4h$, $g^3h - 5gh^2 + h$ 2) $4s^3 - s^2t^3 - st + st^4u^2$, $-s^2t^3 + st^4u^2 - 8st$

$$\begin{array}{r} 3g^5 + 8g^3h + gh^2 - 6k^2 + 4h \\ (+) \quad \quad \quad g^3h - 5gh^2 \quad \quad + h \\ \hline 3g^5 + 9g^3h - 4gh^2 - 6k^2 + 5h \end{array}$$

$$\begin{array}{r} st^4u^2 - s^2t^3 + 4s^3 - st \\ (+) \quad \quad \quad st^4u^2 - s^2t^3 \quad \quad - 8st \\ \hline 2st^4u^2 - 2s^2t^3 + 4s^3 - 9st \end{array}$$

3) $7u^4v + vwx - u^6 - w^3$, $-32 - 3q^2 - 7p - p^5qr$

$$\begin{array}{r} -u^6 + 7u^4v \\ (+) \quad \quad \quad u^6 + 3u^4v \\ \hline 10u^4v \end{array}$$

$$\begin{array}{r} q^2 - 28 \\ 3q^2 - 7p - 32 \\ \hline 4q^2 - 7p - 60 \end{array}$$

5) $d^3 + 8b^6 + 4b^5c$, b^5

$$\begin{array}{r} 8b^6 + \\ (+) \quad 5a^4b^3 + b^6 + \\ \hline 5a^4b^3 + 9b^6 + \end{array}$$

y^4 , $6yz - x^3 - y^5 - x^6 + y^4$

$$\begin{array}{r} y^4 - x^3 - yz \\ y^4 - x^3 + 6yz \\ \hline -2x^3 + 5yz \end{array}$$

PREVIEW

Gain complete access to the largest collection of worksheets in all subjects!

Members, please log in to download this worksheet.

Not a member? Please sign up to gain complete access.

www.mathworksheets4kids.com

7) $-39q^5r^3s^2 + 32 + 6p$, $-32 - 6p + 39q^5r^3s^2$ 8) $n + m + mn^6 + 6n^6$, $-8n^6 - mn^6 - m - 9 - 2n$

$$\begin{array}{r} -39q^5r^3s^2 + 6p + 32 \\ (+) \quad \quad \quad 39q^5r^3s^2 - 6p - 32 \\ \hline 0 \end{array}$$

$$\begin{array}{r} mn^6 + 6n^6 + m + n \\ (+) \quad \quad \quad -mn^6 - 8n^6 - m - 2n - 9 \\ \hline -2n^6 \quad \quad - n - 9 \end{array}$$