

Name : _____

Classifying Polynomials

Classify each polynomial based on degree and the number of terms.

① $-9s + 10$

② $6p^3q - p^2r$

③ $10 - 6p^3$

④ $-10g$

⑤ $-3q^4 + 7pq + 2p^3r^2 - 9 + 2p^7 + 2pqr$

⑥ $-r$

⑦ -8

⑧ $-6x^3 + 6x - 2$

⑨ $10y^5 - 6y^3$

⑩ $6a^2$

⑪ $8l^2 - l + 6l^4 + 4l^3$

⑫ $-8n^4 + 5n^3 - 2n^2 - 8n$

⑬ $8s^5 - 6s^3 + 2s^2 - 6$

⑭ $-8p^7 + 8p^4$

Name : _____

Classifying Polynomials

Answers.

① $-9s + 10$

Linear Binomial

② $6p^3q - p^2r$

Quartic Binomial

③ $10 - 6p^3$

Cubic Binomial

④ $-10g$

Linear Binomial

⑤ $-3q^4 + 7pq + 2p^3r^2 - 9 + 2p^7 + 2pqr$

Polynomial with
6 terms

⑥ $-r$

Linear Monomial

⑦ -8

Constant Monomial

⑧ $-6x^3 + 6x - 2$

Cubic Trinomial

⑨ $10y^5 - 6y^3$

Quartic Binomial

⑩ $6a^2$

Quartic Monomial

⑪ $8l^2 - l + 6l^4 + 4l^3$

Quartic polynomial
with 4 terms

⑫ $-8n^4 + 5n^3 - 2n^2 - 8n$

Quartic polynomial
with 4 terms

⑬ $8s^5 - 6s^3 + 2s^2 - 6$

Quartic polynomial
with 4 terms

⑭ $-8p^7 + 8p^4$

Seven degree
Binomial