

Homework quiz over 7.1 A & B

Name each polynomial by degree and number of terms.

1) $9b^2 - 8$

quadratic binomial

2) $9r^5 + 2r^3 - 3r^2$

quintic trinomial

Simplify each expression.

3) $(6 - 8b^2 - 2b^4) - (6b^4 + 2 + 6b^2)$

$$6 - 8b^2 - 2b^4 - 6b^4 - 2 - 6b^2$$

$$\boxed{-8b^4 - 14b^2 + 4}$$

quartic trinomial

4) $(8b^2 + 3b^4 + 4) + (2 + 4b^3 + 2b^4)$

$$8b^2 + 3b^4 + 4 + 2 + 4b^3 + 2b^4$$

$$\boxed{5b^4 + 4b^3 + 8b^2 + 6}$$

quartic polynomial