

MTH 5
Test 3 Review Problems Answers

1. (c) No solutions. Inconsistent system.

2. (b) 21

3. (1, 3)

4. (a) $-6x^3y^y$

(b) $\frac{16m^4n^{10}}{p^6}$

(c) x^8y^{10}

(d) $108x^8y^7$

(e) 3

(f) $\frac{1}{xy^2}$

(g) $\frac{5x^7}{7y^8}$

(h) $-12000\frac{x^6}{y^{13}} = \frac{-12000x^6}{y^{13}}$

5. (a) binomial

(b) trinomial

6. (a) leading term: $-6x^2$, leading coefficient: -6, degree: 2

(b) leading term: $8x^5$, leading coefficient: 8, degree: 5

7. (a) $10x^2 - 12x - 7$

(b) $15x^3 - 13x^2 - 24x + 5$

(c) $-x^3 + 3x^2 - 2x + 9$

8. (a) $15a^3b^2 - 10a^2b^2 + 20a^2b^3$

(b) $4x^2 + 7xy - 15y^2$

(c) $9m^2 + 12mn + 4n^2$

(d) $x^3 - 5x^2 + 13x - 14$

(e) $4a^2 - 25b^2$

9. (a) $4m^3n$

(b) $5xy - 3y^2 + 2x$