Name: _____   Geometry
Date: Polynomial Review

1. $(3x^2 - 8) + (5x^2 + 8)$ 2. $4(a - 3)$

3. $(5x^2 + 4x + 8) - (3x^2 + x + 3)$ 4. $(x + 4)(x + 2)$

5. $5m^3(m + 6)$ 6. $(7c^2 - 10c + 1) - (9 + 2c^2 - 8c)$

7. $(3a + 4a^3 - 8) + (a^2 + 2a - 7)$ 8. $(x - 4)(x + 3)$

9. $(3y^3 + 8y^2 - 3) + (2y - 5y^2)$ 10. $(x^2 + 7x^3) - (3x^2 - 4x - 12)$

11. $(x^2 + 3x - 2)(x + 3)$ 12. $(3y + 8)(5y + 6)$

13. $4(x^2 - 3) + x(x + 1)$ 14. $6x(x - 1) - 4(x^2 - x)$

15. For what value of x will make the statement undefined:

$$9 \div (x + 3)$$

16. Write an algebraic expression for: 8 less than 3 times a number is 19.

17. A number is less than twice the number decreased by 15.

18. $-48a^4b^3c \div -8a^2c$

19. $\dfrac{12x^2 - 18xy + 24y^2}{6}$

21) $\dfrac{3.4a^8b^9c^{10} - 5.1a^6b^2c^8}{-1.7a^6b^2c^8}$