

Integrated Math 1
Quiz – Factorising Polynomials
Text Reference: Chapter 8
Out of 28 Marks

Name _____

Date _____ Block _____

Factor the following expressions completely! If an expression cannot be factored write Prime.

1. $3c^2 + 12$

2. $k^2 - 49$

3. $a^2 - 8a + 16$

/5

4. $9a^2 + 16$

5. $y^2 + 17y + 52$

6. $7x^4 - 28x^3 + 21x^2$

/6

7. $75m^3 - 300mn^2$

8. $8a^2 - 14a + 3$

9. $a^2 + a + 1$

/6

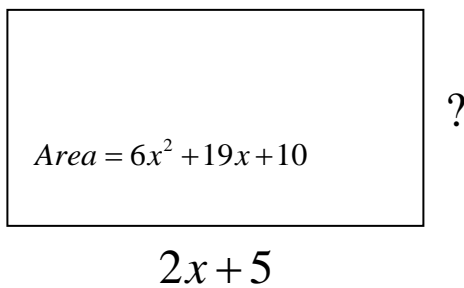
10. $b^4 - 1$

11. $20q^3 + 4q^2 + 25q + 5$

12. $6a^2 + a - 12$

/8

13. The area for the rectangle given below is given to be $6x^2 + 19x + 10$. The length of the rectangle is given to be $2x + 5$.



- (a) $Area = 6x^2 + 19x + 10$ Find the width of the rectangle.

- (b) If $x = 2$ find the area of the rectangle.

/3

14. Please fill in the following blank with the mathematics course you intend on taking next year.

_____ (This question is not worth any marks)