

Name: _____

TA: _____

Foundations of Math 10 LG 5 Ver B

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Expectation #1: Determine prime factors, greatest common factors, and least common multiples of whole numbers.

1. Determine the Greatest Common Factor (GCF) of the following: 16, 32, 40.

(1 mark)

2. Identify the Least Common Multiple (LCM) of the following: 15 and 20 (1 mark)

Expectation #2: Determine the common factor of polynomials.

3. Factor completely. (2 marks each)

a) $3x - 6$

b) $22xy^2 - 33x^3y^2$

Expectation #3: Factor trinomials.

4. Determine two values of b that allow the expression to be factored

(2 marks)

$$x^2 + bx + 10$$

5. Factor completely. (2 marks each)

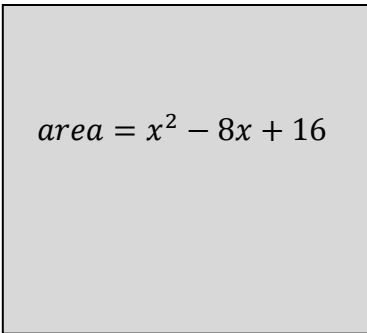
b) $x^2 + 10x + 25$

b) $x^2 + xy - 30y^2$

c) $2x^2 + 7x + 3$

d) $20x^2 - 22x + 6$

6. A square has an area of $x^2 - 8x + 16$. Determine the dimensions of the square and then calculate the length and width of the square if $x = 9\text{cm}$. (2 marks)



Expectation #4: Factor a difference of squares (special trinomial).

7. Give an example of a difference of squares and then factor the expression (2 marks)