FACTORIZATION OF ALGEBRAIC EXPRESSIONS

A COMMON FACTOR LAWS

A.1 FACTORIZING THE COMMON FACTOR: LEVEL 1

Ex 1: Factorize:

$$3x + 15 = \boxed{}$$

Ex 2: Factorize:

$$4x + 2 = \boxed{}$$

Ex 3: Factorize:

$$6x + 9 = \boxed{}$$

Ex 4: Factorize:

$$2x-4=$$

Ex 5: Factorize:

$$3 - 6x =$$

A.2 FACTORIZING THE COMMON FACTOR: LEVEL 2

Ex 6: Factorize:

$$2x^2 + 4 = \boxed{}$$

Ex 7: Factorize:

$$x^2 + 6x = \boxed{}$$

Ex 8: Factorize:

$$x^2 - 2x = \boxed{}$$

Ex 9: Factorize:

$$2x^2 - 2x = \boxed{}$$

B DIFFERENCE OF SQUARES

B.1 FACTORIZING THE DIFFERENCE OF SQUARES: LEVEL 1

Ex 10: Factorize:

$$x^2 - 1 =$$

Ex 11: Factorize:

$$x^2 - 4 = \boxed{}$$

Ex 12: Factorize:

$$x^2 - 9 =$$

Ex 13: Factorize:

$$25 - x^2 =$$

B.2 FACTORIZING THE DIFFERENCE OF SQUARES: LEVEL 2

Ex 14: Factorize:

$$x^2 - 3 =$$

Ex 15: Factorize:

$$x^2 - 2 = \boxed{}$$

Ex 16: Factorize:

$$5 - x^2 = \boxed{}$$

Ex 17: Factorize:

$$7 - x^2 =$$

C PERFECT SQUARE TRINOMIALS

C.1 FACTORIZING PERFECT SQUARE TRINOMIALS

Ex 18: Factorize:

$$x^2 + 2x + 1 =$$

Ex 19: Factorize:

$$x^2 + 4x + 4 =$$

Ex 20: Factorize:

$$x^2 + 6x + 9 =$$

Ex 21: Factorize:

$$x^2 + 10x + 25 =$$