

UNIT 10 : Identities

Level 1

1 Which of the following is/are identities?

(1) $(x+1)(x+2) = x^2 + 3x + 2$

(2) $4x^2 - 9 = (2x+3)(2x-3)$



(3) $(x+1)^2 = x^2 + x + 1$

A (1) only

D (2) and (3) only

B (3) only

E (1), (2) and (3)

C (1) and (2) only

2 If $(A-2)x^2 + (2A+B)x \equiv 0$, find the values of A and B .

A $A = 2, B = 4$

D $A = 2, B = -1$

B $A = 2, B = -4$

E $A = 4, B = 2$

C $A = 2, B = 1$



3 If $x^2 + px + 7 \equiv (x+q)^2 - 2$, find the values of p and q .

A $p = 3, q = 6$

B $p = 3, q = 6$ or $p = -3, q = -6$

C $p = 6, q = 3$ or $p = -6, q = -3$

D $p = 6, q = -3$ or $p = -6, q = 3$

E $p = 3, q = -6$ or $p = 3, q = -3$



4 If $A(x-2)^2 - B(x-3)^2 \equiv x^2 - 6$, find the values of A and B .

A $A = 3, B = 2$

D $A = 2, B = -3$

B $A = 2, B = 3$

E $A = -3, B = 2$

C $A = 3, B = -2$



5 If $(x-a)(x+2) \equiv x^2 + bx - 6$, find the values of a and b .

A $a = -3, b = -1$

D $a = 3, b = -1$

B $a = -3, b = 5$

E $a = -1, b = 3$

C $a = 3, b = 1$



6 If $m(x^2 - 1) - n(x^2 - x) + p(x^2 + x) \equiv 1$, find m .

A 2

B 1

C 0

D 1

E -2

