IDENTITIES

Form 2 Summer Course

Vol 1 - CH4

2. (a) $\text{LHS} = 3x^2 - 12x + 7$

$\text{RHS} = 3(x-2)^2 - 15 = 3x^2 - 12x + 12 - 15 = 3x^2 - 12x - 3$

This is not an identity.

(b) $\text{LHS} = x(x+7) - 6 = x^2 + 7x - 6$

$\text{RHS} = (x-3)(x+2) = x^2 - x - 6$

This is not an identity.

(c) $\text{LHS} = 2(3x+1) + 5 = 6x + 2 + 5 = 6x + 7$

$\text{RHS} = 3(x+2) - (4-x) = 4x + 2$

This is not an identity.

3. (a) $A = -4, B = -5$

(b) $P = \frac{3}{2}$, $Q = -3.5$

(c) $A = -\frac{3}{2}$, $B = 7$

(d) $p = 2$, $q = -7$

(e) $P = -8$, $Q = 16$

(f) $A = 0$, $B = -2$, $C = 0$

(g) $A = 0$, $B = -3$

(h) $A = -14$, $B = 15$

(i) $P = 1$, $Q = 2$, $R = 1$

(j) $A = 4$, $B = -4$

(k) $A = 6$, $B = 36$, $C = -9$

all rights reserved by Aspire Education.