

For each polynomial:

- a) Prove the polynomial algebraically
- b) Verify the polynomial Numerically

1) $(a + b)^2 = a^3 + 3a^2b + 3ab^2 + b^3$

2) $(c - 2d)(c - d) = c^2 - 3cd + 2d^2$

Can you prove the given polynomial Numerically?

3) $(c + d)^2(c - d) ?? c^3 + 2c^2d - cd + d^3$