

I. The polynomial

$$n^2x^{2n+3} - 25nx^{n+1} + 150x^7$$

has $x^2 - 1$ as a factor

- (a) for no values of n ;
- (b) for $n = 10$ only;
- (c) for $n = 15$ only;
- (d) for $n = 10$ and $n = 15$ only.