

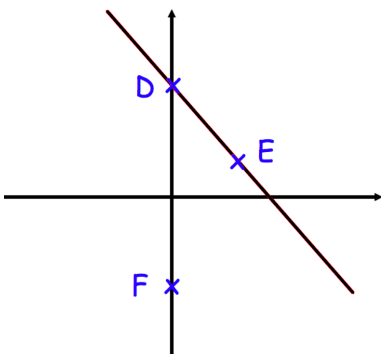


Find an expression, in terms of n , for the n th term of the quadratic sequence

11 12 15 20

Solve $x^2 - 4x - 21 > 0$

Prove $3n(3n + 4) + (n - 6)^2$ is positive for all values of n .



A straight line passes through $D(0, 10)$ and $E(5, 1)$

Find the equation of the line perpendicular to DE and passing through $F(0, -6)$

Find the shortest distance between the line passing through DE and the point F