

9a Starting Six

What is the co-ordinate for the turning point of $y = x^2 + 8x + 12$

Solve these simultaneous equations:

$$\begin{aligned}6x + 2y &= 5 \\3x + 5y &= -5.5\end{aligned}$$

Simplify:

$$\frac{3x + 5}{3} + \frac{2x - 7}{4}$$

Make x the subject of the formula:

$$w = \frac{3k - xp}{5x - m}$$

Prove that $(3n+1)^2 - (3n-1)^2$ is a multiple of 4 for all positive integer values of n .

$$f(x) = 2x^2 - 5 \text{ and } g(x) = \frac{1}{x-9}$$

Find: $gf(6)$

Find: $f^{-1}(x)$

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