



SUBSTITUTION SINGLE VARIABLE

NO CALCULATOR

Ref: G212. **1E1**

A1 If $n = 6$ Find the value of $2n^2$	A2 If $n = 6$ Find the value of $(2n)^2$	A3 If $n = 6$ Find the value of $(2+n)^2$	A4 If $n = 6$ Find the value of $(2n^2)^2$
B1 If $n = 5$ Find the value of $3n^2 - 5$	B2 If $n = 4$ Find the value of $(3n)^2 + 4$	B3 If $n = 3$ Find the value of $3(n+5)^2 - 4$	B4 If $n = 7$ Find the value of $2(n-3)^2 + n$
C1 If $n = 14$ Find the value of $\sqrt{n-5}$	C2 If $n = 5$ Find the value of $\sqrt{(n+3)(n-3)}$	C3 If $n = 6$ Find the value of $\sqrt{(n+3)(n-2)}$	C4 If $n = 11$ Find the value of $\sqrt{\frac{n-2}{n+5}}$
D1 If $n = 5$ Find the value of $\frac{1}{n+1} + \frac{1}{n-1}$	D2 If $n = 4$ Find the value of $\frac{n+2}{n^2} + \frac{1}{n-1}$	D3 If $n = 6$ Find the value of $\frac{n+1}{3} + \frac{n-1}{4}$	D4 If $n = 7$ Find the value of $\left(\frac{n-2}{2}\right)^2 + \sqrt{\frac{n+9}{9}}$
E1 If $n = 6$ Find the value of $3n^2 - 11n - (7-n)$	E2 If $n = 4$ Find the value of $2n^2 + 3(n+1)^2$	E3 If $n = 3$ Find the value of $5(n+1)^2 + 2n^3 - (n-3)^2$	E4 If $n = 2$ Find the value of $4n^2 + (4n)^2 + 4(4n^2)^2$



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A1 If $n = 6$ Find the value of $2n^2$ $2 \times 6^2 = 72$	A2 If $n = 6$ Find the value of $(2n)^2$ $(2 \times 6)^2 = 144$	A3 If $n = 6$ Find the value of $(2+n)^2$ $(8)^2 = 64$	A4 If $n = 6$ Find the value of $(2n^2)^2$ $(2 \times 6^2)^2 = (72)^2 = 5184$
B1 If $n = 5$ Find the value of $3n^2 - 5$ $3 \times 5^2 - 5 = 70$	B2 If $n = 4$ Find the value of $(3n)^2 + 4$ $(3 \times 4)^2 + 4 = 148$	B3 If $n = 3$ Find the value of $3(n+5)^2 - 4$ $3 \times (8)^2 - 4 = 188$	B4 If $n = 7$ Find the value of $2(n-3)^2 + n$ $2 \times (4)^2 + 7 = 39$
C1 If $n = 14$ Find the value of $\sqrt{n-5}$ $\sqrt{14-5} = \sqrt{9} = \pm 3$	C2 If $n = 5$ Find the value of $\sqrt{(n+3)(n-3)}$ $\sqrt{8 \times 2} = \sqrt{16} = \pm 4$	C3 If $n = 6$ Find the value of $\sqrt{(n+3)(n-2)}$ $\sqrt{9 \times 4} = \sqrt{36} = \pm 6$	C4 If $n = 11$ Find the value of $\sqrt{\frac{n-2}{n+5}}$ $\sqrt{\frac{9}{16}} = \pm \frac{3}{4}$
D1 If $n = 5$ Find the value of $\frac{1}{n+1} + \frac{1}{n-1}$ $\frac{1}{6} + \frac{1}{4} = \frac{5}{12}$	D2 If $n = 4$ Find the value of $\frac{n+2}{n^2} + \frac{1}{n-1}$ $\frac{6}{16} + \frac{1}{3} = \frac{17}{24}$	D3 If $n = 6$ Find the value of $\frac{n+1}{3} + \frac{n-1}{4}$ $\frac{7}{3} + \frac{5}{4} = \frac{43}{12}$	D4 If $n = 7$ Find the value of $\left(\frac{7-2}{2}\right)^2 + \sqrt{\frac{7+9}{9}} = \frac{91}{12}$
E1 If $n = 6$ Find the value of $3n^2 - 11n - (7-n)$ $3 \times 6^2 - 66 - (1) = 41$	E2 If $n = 4$ Find the value of $2n^2 + 3(n+1)^2$ $2 \times 4^2 + 3 \times (5)^2 = 107$	E3 If $n = 3$ Find the value of $5(n+1)^2 + 2n^3 - (n-3)^2$ $5 \times (4)^2 + 2 \times 3^3 - (0)^2 = 134$	E4 If $n = 2$ Find the value of $4n^2 + (4n)^2 + 4(4n^2)^2$ $4 \times 2^2 + (8)^2 + 4 \times (16)^2 = 1104$