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A.P. Sn = a +(a +d)+(a +2d)+ +[a +(n 1)d] = n 2 [2a +(n 1)d] G.P. Sn = a + ar + ar2 + +arn 1 = a 1 rn 1 r, S1 = a 1 r for jrj < 1 (These results also hold for complex series.) Convergence of series: the ratio test Sn = u1 +u2 +u3 + +un converges as n! 1 if lim n!1 un+1 un < 1 Convergence of series: the comparison test

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a2−(2a−ab)−a(3b+a) =a2−2a+ab−3ab−a2. Collecting similar terms together gives: −2a−2ab. Since −2ais a common factor, the answer can be expressed as −2a(1+b) Problem 28. Simplify (a+b)(a−b) Each term in the second bracket has to be multiplied by each term in the first bracket.Thus: (a+b)(−)= =a2−ab+ab−b2=a2−b2.

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