- 1. Expand (x + 2y).
- 2. ! "nd t#e sum and t#e product of t#e roots (real and complex) of $x + x^2 + x^2$

. (ol)e for x:
$$\frac{2}{x-2} + \frac{2}{x+2} = \frac{*}{x^2-+}$$

- +. ,f "c#ard can pa"nt t#e"r l")"n. room "n + #ours/ and 0anessa can pa"nt t#e same l")"n. room "n * #ours/ t#en #o1 lon. 1"ll "t ta2e t#em to pa"nt t#e l")"n. room 1 or 2"n. to.et#er3
- *. 4 eterm"ne t#e sum of t#e "nf"n"te . eometr"c ser"es 1 "t# f"rst term and common rat"o $\frac{2}{*}$.
- 5. Compute Io.₆2\$.
- \$. !actor completely x⁵ % 1 o)er t#e real num7ers.
- 8. ! "nd t#e area of t#e s#aded re."on 7elo1 (ly"n. "ns"de a c"rcle of rad"us *)
- 6. !"nd t#e e9uat"on of t#e I"ne pass"n. t#rou.# t#e po"nts (2/) and (*/:1).
- 1'. !"nd t#e area of t#e re."on 7ordered 7y t#e I"nes +x + y & 1+/x & 1/and y & :2.
- 11. (2etc# t#e .rap# of t#e e9uat"on $x^2 + y^2 + 2x + y^2 + 11$:
- 12. E) aluate t#e follo 1 "n . 9 uant "t "es:
 - (a) s"n $\frac{\pi}{5}$
- (7) cos $\frac{\pi}{2}$

1 $r^3 + 6r^2 1 + 12r1 + 8r^3$

