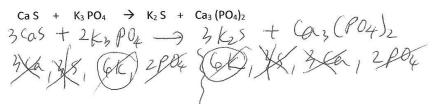
Quiz 2:	Chapter 3	Dr. Hahn Greenville Tech	2/16/21	Print Name
Show w	ork for all q	uestions for partial and ful	credit.	(25 pts total)



1.	Balance the Chemical Reaction Below.	Assume that the reaction goes to completion.	(4 pts)
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2. What is the formula weight for the compound K₃ PO₄ (3 pts)

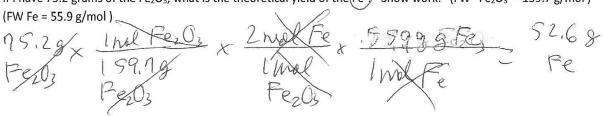
3. a) If I have 207.8 grams of H₂O, how many moles of water do I have? (molecular weight of H₂O is 18.02

b) Out of 207.8 grams of H_2O , how many atoms of H do I have ? (avogadro's number is 6.02 x 10^{23}) (4 pts) 201.8gx 1 moltro x 2nolt x 6,02 x 10²² uton 4 = 1,3gs

4. For the reaction below: (6 pts)

 $Fe_2 O_3 (s) + 2 AI (s) \rightarrow 2 Fe (I) + AI_2 O_3 (s)$

If I have 75.2 grams of the Fe_2O_3 , what is the theoretical yield of the Fe_2O_3 Show work. (FW $Fe_2O_3 = 159.7$ g/mol)



5. Is Ca S ((soluble) or (insoluble)] (circle one) in water? (4 pts)

cas - exception to (5 in soluble

