For each problem:
a) Show how to solve the rule for the sequence
b) Write that rule clearly in proper form
c) Apply that rule to fill in the missing terms
d) Extend the sequence to solve for the specific term requested

1. \(-\frac{11}{5}, \frac{-7}{5}, \frac{-3}{5}, \frac{1}{5}, 1, \frac{6}{5}\) Extend to the 46th term

2. \(-14, 12, 38, 64, 90, 116\) Extend to the 25th term

3. \(\frac{61}{8}, \frac{27}{4}, \frac{-47}{8}, 5, \frac{33}{8}, \frac{-26}{8} = \frac{-13}{4}\) Extend to the 65th term

4. \(\frac{87}{2}, \frac{76}{2} = \frac{38}{2}, \frac{66}{2} = \frac{33}{2}, \frac{44}{2} = \frac{22}{2}, 16\) Extend to the 15th term

5. \(32, 25, 18, 11, 4, -3\) Extend to the 20th term

6. \(\frac{11}{4}, \frac{20}{4} = \frac{5}{2}, \frac{29}{4} = \frac{29}{4}, \frac{38}{4} = \frac{19}{2}, \frac{47}{4}, \frac{56}{4} = 14\) Extend to the 33rd term

7. \(\frac{64}{6}, \frac{28}{6}, \frac{9}{6}, \frac{49}{6}, \frac{44}{6} = \frac{22}{3}, \frac{13}{2}\) Extend to the 25th term

8. \(\frac{5}{2}, \frac{10}{3}, \frac{15}{2} = \frac{15}{2}, \frac{20}{3}, \frac{29}{3}, 10\) Extend to the 40th term

***Fill in the missing terms on this paper. Everything else should be written clearly on your FOLDER PAPER.***
sequences Test

1) Rule 8 \(-\frac{11}{5} + (n-1) \frac{4}{5}\) C
   Extends \(-\frac{91}{5}\) \(\times\)

2) Rule 8 \(-14 + (n-1) 26\) C
   Extends \(-610\) C

3) Rule 8 \(\frac{61}{8} - (n-1) \frac{7}{8}\) C
   Extends \(-\frac{267}{8}\) neq

4) Rule 8 \(\frac{57}{9} - (n-1) \frac{11}{2}\) C
   Extends \(-\frac{67}{2}\) C

5) Rule 8 \(-32 - (n-1) 7\) C
   Extends \(-101\) C

6) Rule 8 \(\frac{11}{4} + (n-1) \frac{9}{4}\) C
   Extends \(-\frac{299}{4}\) C

7) Rule 8 \(\frac{51}{2} - (n-1) \frac{5}{2}\) C
   Extends \(-\frac{28}{3}\) C