**Class Quiz(2020)-**

**1) Find the 3rd term of (2x – 3y)9**

**2) Expand (8 - 5y)4**

**4) Find the 4 arithmetic means between 1 and 36.**

**5) Determine the sum of the infinite series 5 + 1**$\frac{2}{3}$ **+**$ \frac{5}{9}$ **+ . . .**

**6) Write the first five terms of the sequence defined recursively.**

 **a1=3, ak+1 = 2 ( ak - 1)**

**7) A snowmobiling competitor travels 12 feet in the first second of a race. If the competitor travels 1.5 additional feet each subsequent second, how many total feet did the competitor travel in 64 seconds?**

**8) A ball is kicked 5 meters up in the air. On each bounce, the ball rises 65% of the height reached on the previous bounce. Approximate the total vertical distance the ball travels.**

**Challenge: Write the sum in Sigma Notation.**

**15 - 3 +** $\frac{3}{5}$ **- . . . -** $\frac{3}{625}$