Infinte Series SOLUTIONS

1.   i. 2

     ii. Doesn't exist

     iii. $\frac{27}{2}$

     iv. $\frac{16}{3}$

     v. Doesn't exist

2. $\frac{2}{3}$

3. $\frac{58}{99}$

4. $\frac{43}{9}$

5.   i. $S_\infty = \dfrac{x}{1 - \frac{1}{1-x}}$

     ii. $x = 4$

6.   i. $S_\infty = \dfrac{x}{1 - \frac{1}{x+2}}$

     ii. $x = 3$

7.   i. $-4 > x > 2$

     ii. $-\frac{1}{3} > x > 1$

     iii. $-3 < x < 3$

8.   i. $\theta = 15°, 45°, 75°$

     ii. $\theta = 0°, 60°$

9. $p = 3$