

$$\begin{aligned}
 c) M(n) &= \frac{Q(n)}{E(n)} \\
 &= \frac{(5n-1)(2n-1)}{(5n-3)(2n-1)} \\
 &= \frac{5n-1}{5n-3}
 \end{aligned}$$

$$M(n) = \frac{n-1}{n+2}$$

$$\frac{5n-1}{5n-3} \times \frac{n-1}{n+2}$$

$$(5n-1)(n+2) = (5n-3)(n-1)$$

$$5n^2 + 10n - n - 2 = 5n^2 - 5n - 3n + 3$$

$$9n - 2 = -8n + 3$$

$$9n + 8n = 3 + 2$$

$$17n = 5$$

$n = \frac{5}{17}$ which is accepted since it is included in my domain.

4th exercise:

$$1) A = \frac{2}{3} - \frac{2}{3} \times \left[\frac{4}{5} \right]^{-1} = \left(\frac{3}{2} - 1 \right)$$

$$= \frac{2}{3} - \frac{2 \times 5}{3 \times 4^{12}} \div \frac{1}{2}$$

$$= \frac{2}{3} - \frac{5}{6} \times 2$$

$$= \frac{2}{3} - \frac{5}{3} = -\frac{3}{3} = -1 \text{ (integer)}$$

P.6.