Q(iii) $-1.2, -3.2, -5.2, -7.2, \ldots$

$a_2 - a_1 = -3.2 - (-1.2)$
$= -3.2 + 1.2$
$= -2$

$a_3 - a_2 = -5.2 + 3.2$
$= -2$

$a_4 - a_3 = -7.2 + 5.2$
$= -2$

$\because$ diff. remains constant
$\therefore$ A.P.

Q(iv) $-10, -6, -2, 2, \ldots$

$a_2 - a_1 = -6 - (-10)$
$= -6 + 10$
$= 4$

$a_3 - a_2 = -2 + 6$
$= 4$

$a_4 - a_3 = 2 + 2$
$= 4$

$\because$ diff. remains constant
$\therefore$ A.P.

Q(v) $3, 3+\sqrt{2}, 3+2\sqrt{2}, 3+3\sqrt{2}, \ldots$

$a_2 - a_1 = 3 + \sqrt{2} - 3$
$= \sqrt{2}$

$a_3 - a_2 = 3 + 2\sqrt{2} - 3 - \sqrt{2}$
$= \sqrt{2}$

$a_4 - a_3 = 3 + 3\sqrt{2} - 3 - 2\sqrt{2}$
$= \sqrt{2}$

$\because$ diff. remains consi
$\therefore$ A.P.

Q(vi) $0.2, 0.22, 0.222, 0.2222, \ldots$

$a_2 - a_1 = 0.22 - 0.2$
$= 0.02$

$a_3 - a_2 = 0.222 - 0.22$
$= 0.002$

$\because a_2 - a_1 \neq a_3 - a_2$
$\therefore$ not A.P.

Q(vii) $0, -4, -8, -12, \ldots$

$a_2 - a_1 = -4 - 0$
$= -4$

$a_3 - a_2 = -8 - (-4)$
$= -8 + 4$
$= -4$

$a_4 - a_3 = -12 - (-8)$
$= -12 + 8$
$= -4$

$\because$ diff. remains const
$\therefore$ A.P.