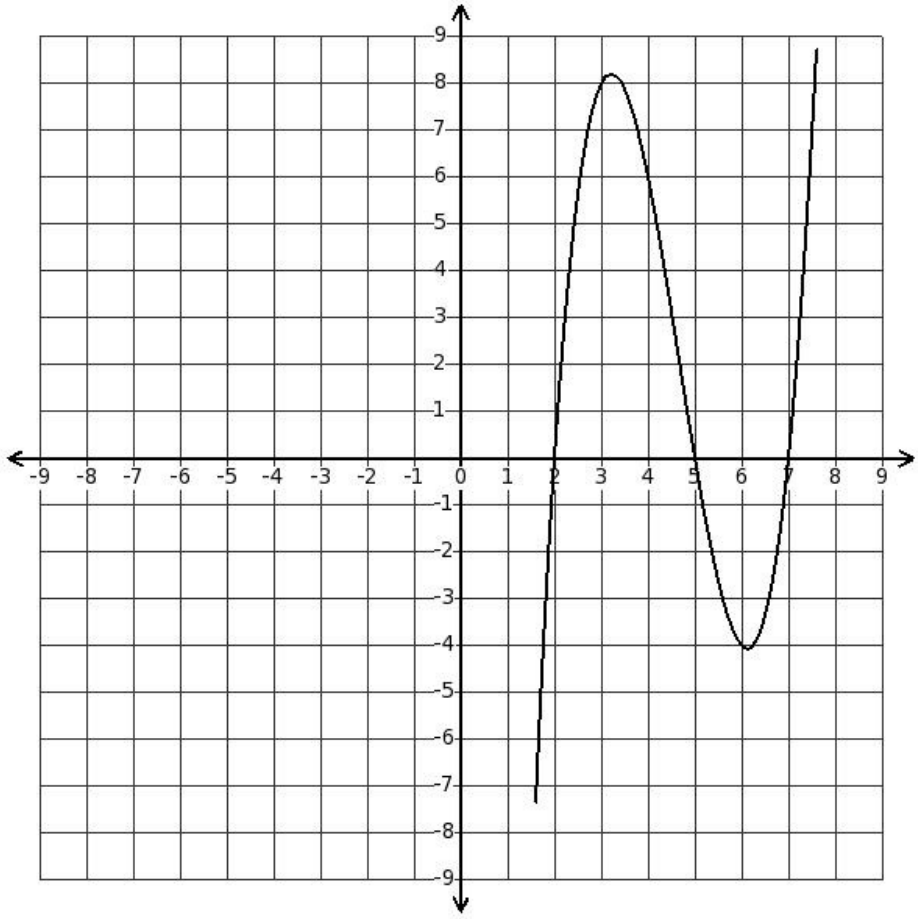
EduSahara™ Assignment

Name : Zeros of a Polynomial Using Graphs

Chapter : Polynomials

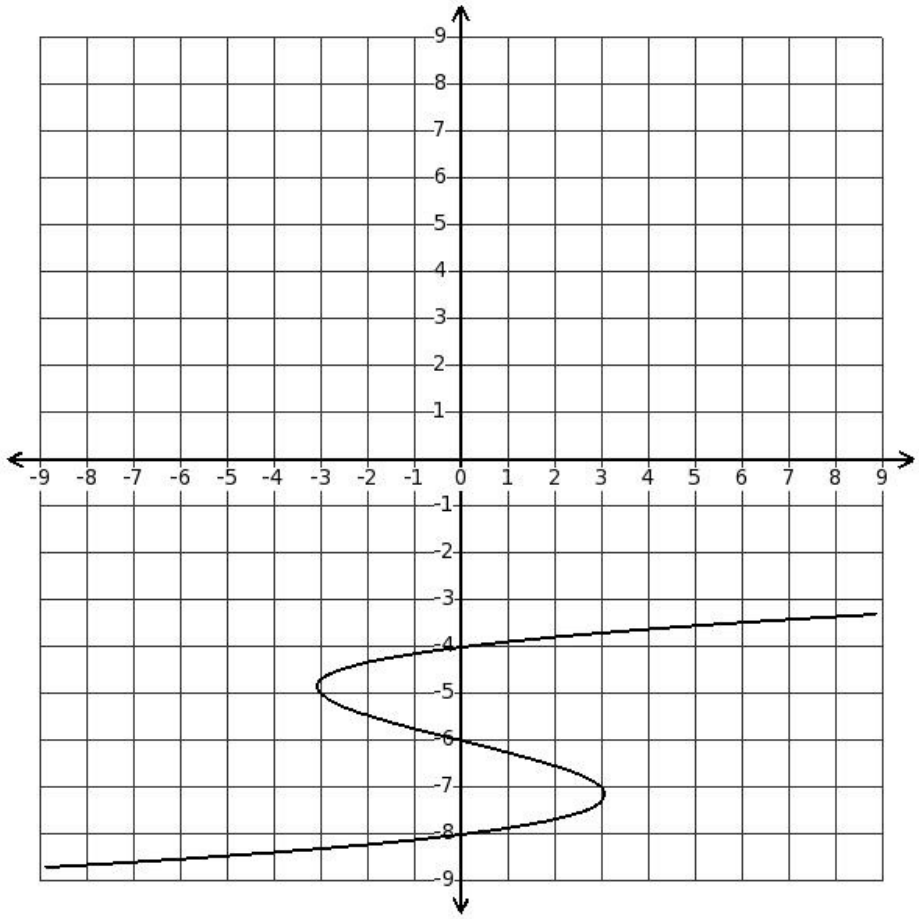
Grade : SSC Grade X

1. From the following graph of $y = p(x)$, find the roots of $p(x)$



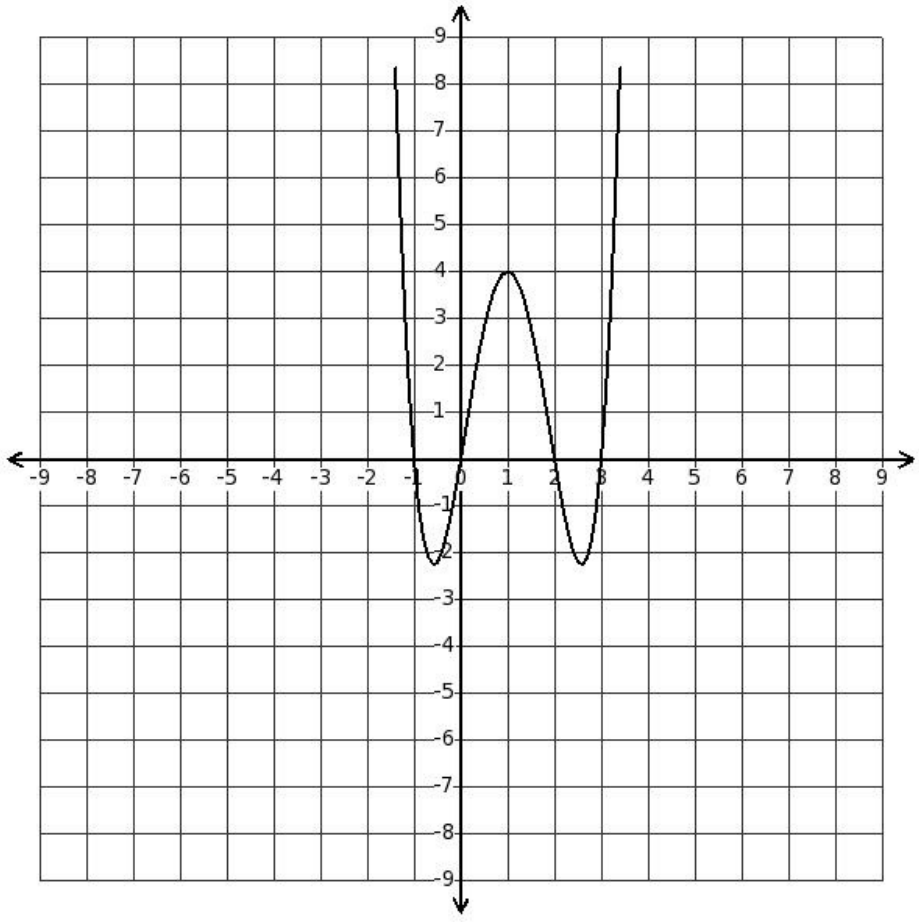
(i) 2, 5 and 7 (ii) 2, 4 and -2 (iii) 2, 5 and -4 (iv) 2, -3 and 7 (v) 4, 5 and 7

2. From the following graph of $x = p(y)$, find the roots of $p(y)$



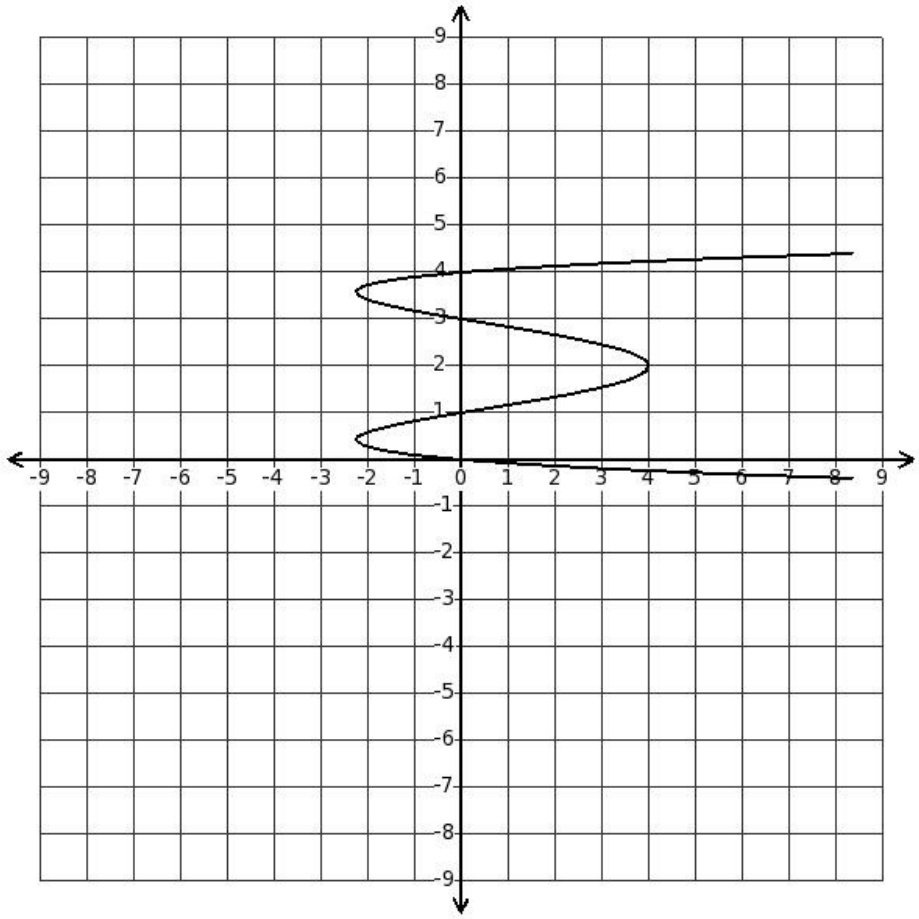
(i) 4, -6 and -4 (ii) -8, -6 and -4 (iii) -8, 4 and -7 (iv) -8, -6 and 6 (v) -8, 2 and -4

3. From the following graph of $y = p(x)$, find the roots of $p(x)$



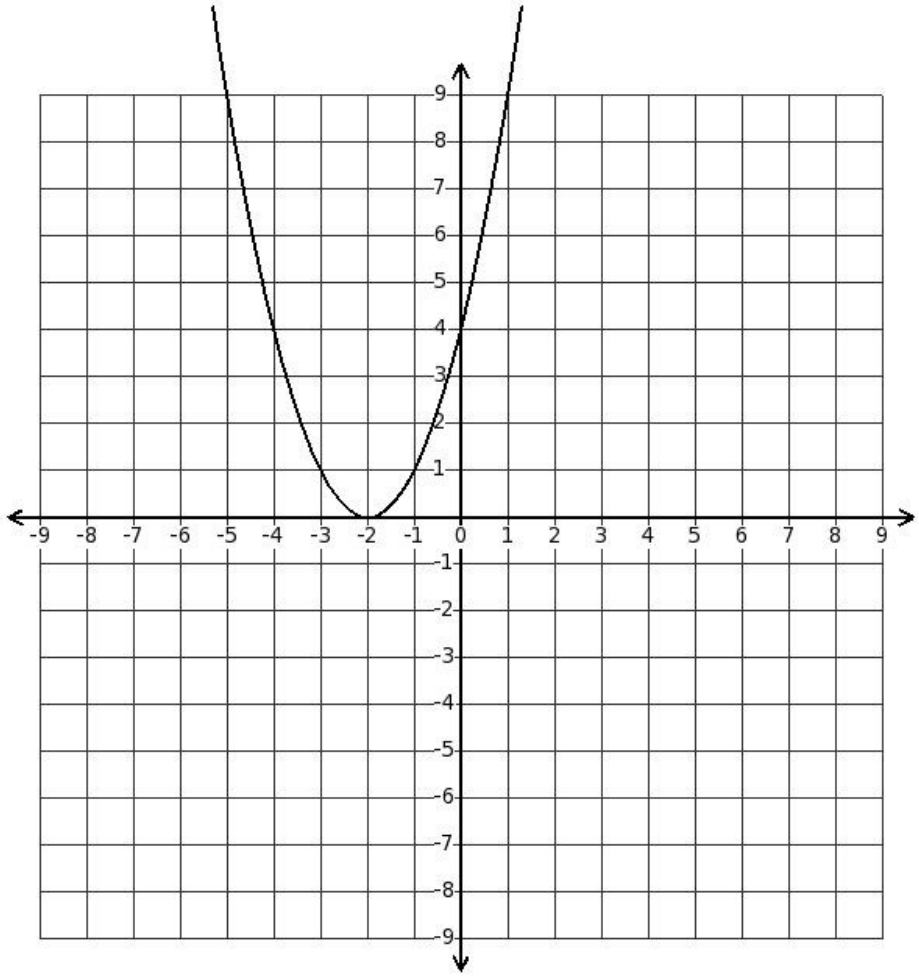
(i) -1, 0, 2 and 3 (ii) -1, 0, 2 and 8 (iii) -1, -4, 2 and 3 (iv) -1, 0, -5 and 3 (v) -8, 0, 2 and 3

4. From the following graph of $x = p(y)$, find the roots of $p(y)$



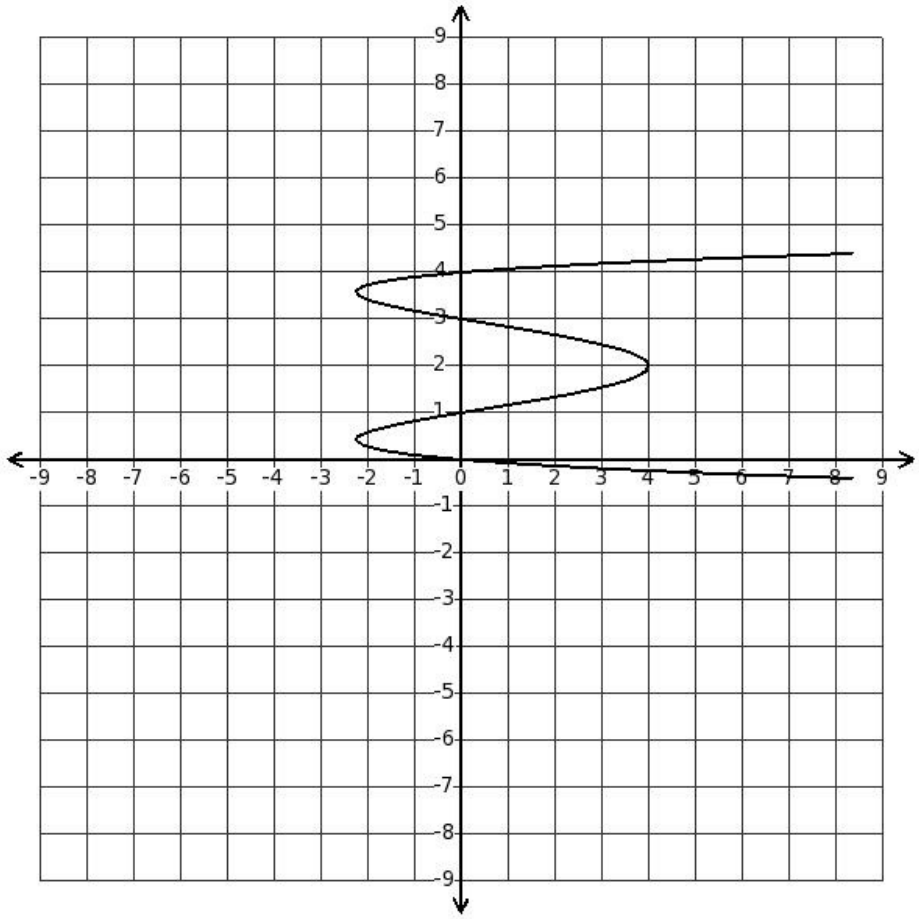
(i) 0, 1, 3 and 7 (ii) 0, 1, -8 and 4 (iii) 0, -3, 3 and 4 (iv) -7, 1, 3 and 4 (v) 0, 1, 3 and 4

5. From the following graph of $y = p(x)$, find the number of zeroes of $p(x)$



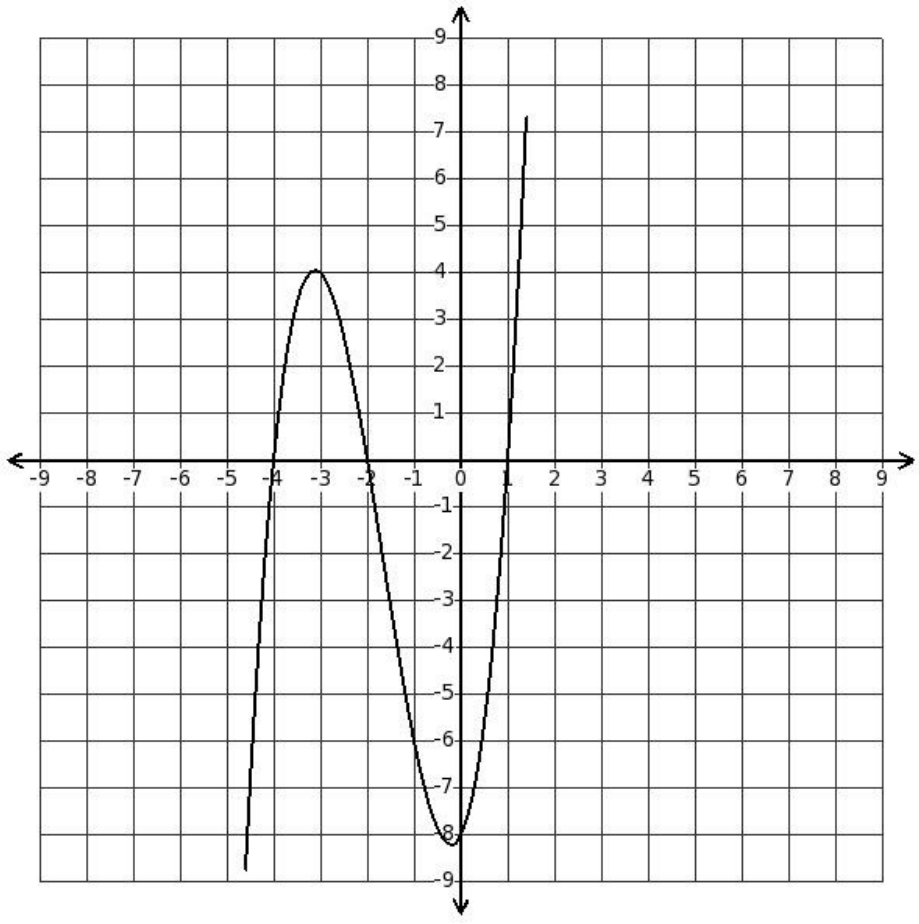
(i) 0 (ii) (-1) (iii) 2 (iv) 3 (v) 1

6. From the following graph of $x = p(y)$, find the number of zeroes of $p(y)$



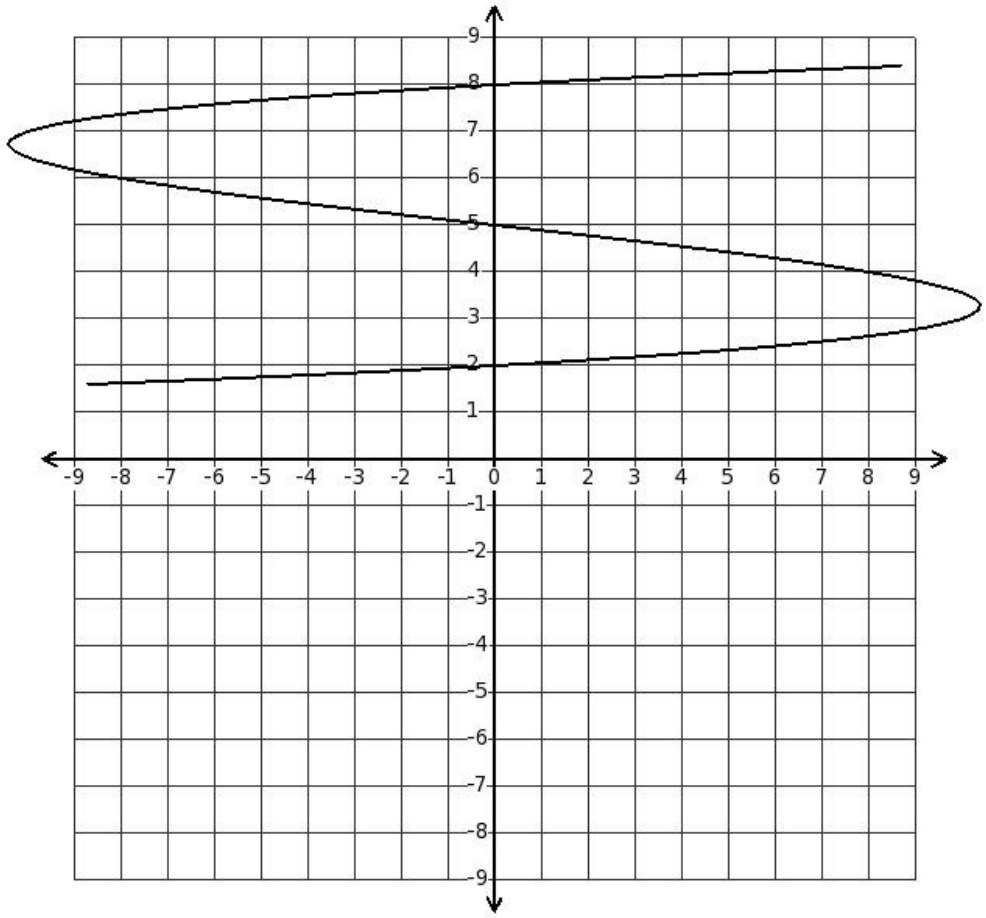
(i) 7 (ii) 3 (iii) 5 (iv) 1 (v) 4

7. From the following graph of $y = p(x)$, find the roots of $p(x)$



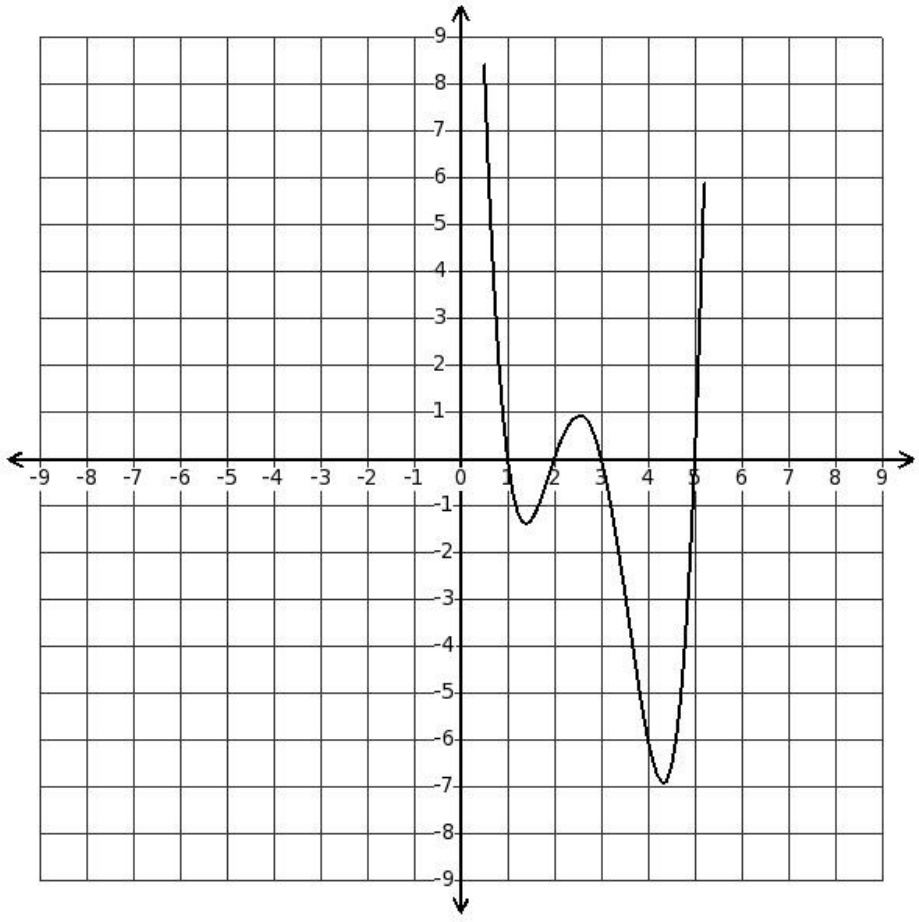
(i) 7, -2 and 1 (ii) -4, -2 and 1 (iii) -4, 7 and 4 (iv) -4, -6 and 1 (v) -4, -2 and 5

8. From the following graph of $x = p(y)$, find the roots of $p(y)$



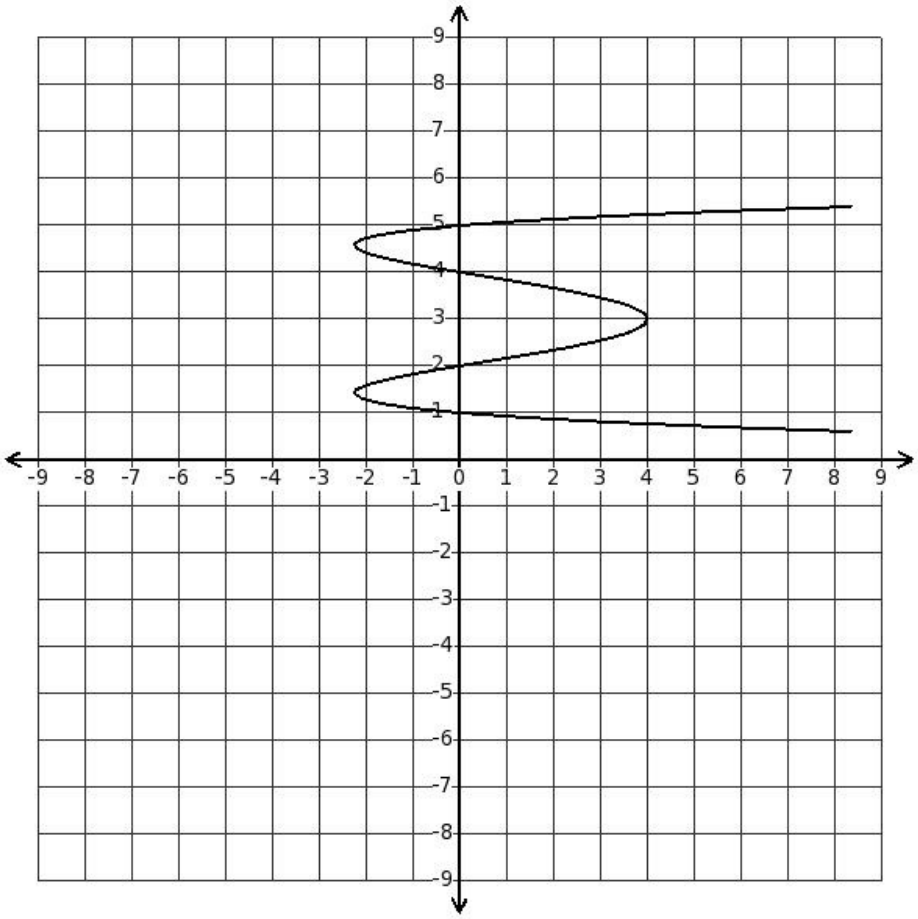
(i) 2, 5 and 8 (ii) 2, -7 and 8 (iii) -6, 5 and 8 (iv) 2, -6 and -2 (v) 2, 5 and -5

9. From the following graph of $y = p(x)$, find the roots of $p(x)$



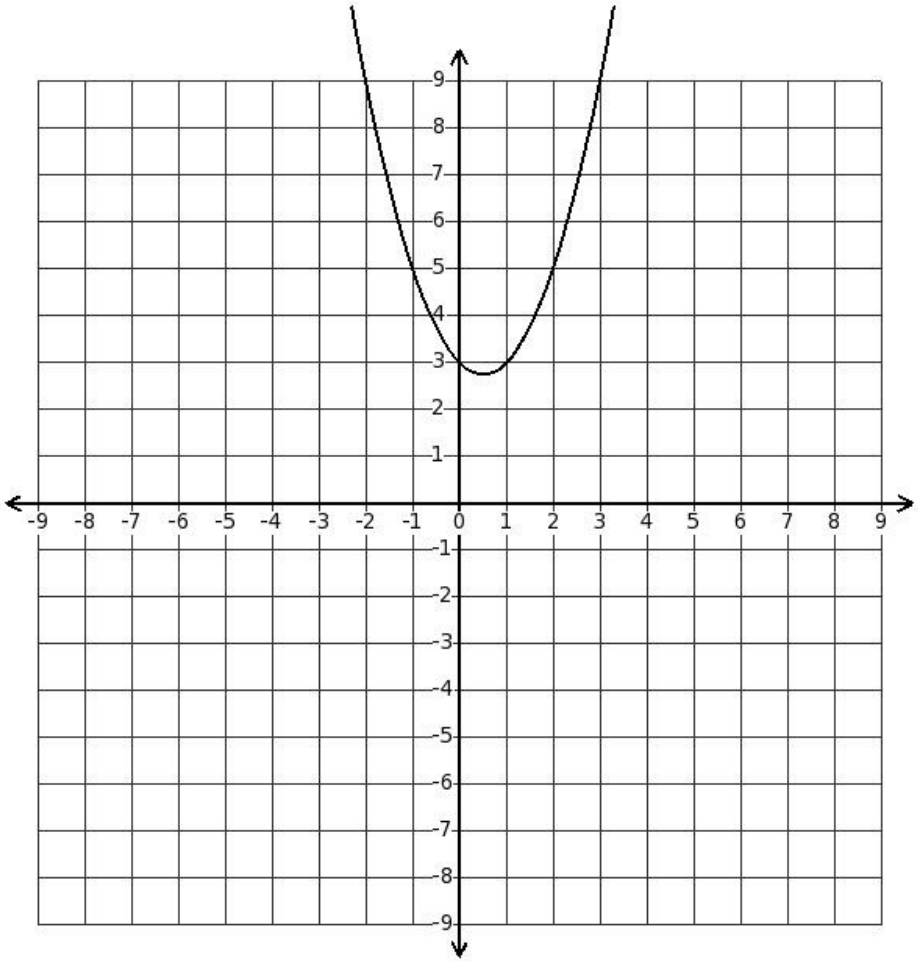
(i) 1, 2, 3 and 5 (ii) 1, 2, 3 and -6 (iii) 1, 2, -8 and 5 (iv) 1, -4, 3 and 5 (v) 8, 2, 3 and 5

10. From the following graph of $x = p(y)$, find the roots of $p(y)$



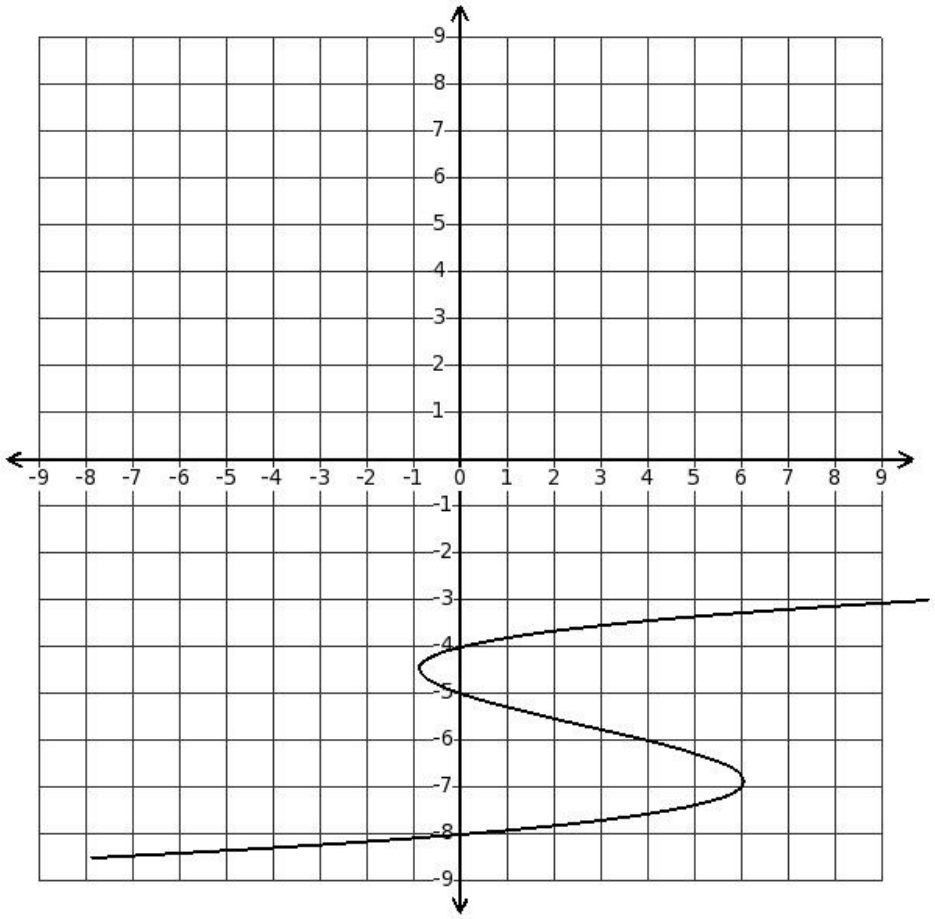
(i) 1, 8, 4 and 5 (ii) 1, 2, 0 and 5 (iii) 1, 2, 4 and 5 (iv) -3, 2, 4 and 5 (v) 1, 2, 4 and 3

11. From the following graph of $y = p(x)$, find the number of zeroes of $p(x)$



(i) (-1) (ii) 2 (iii) 0 (iv) (-3) (v) 1

12. From the following graph of $x = p(y)$, find the number of zeroes of $p(y)$



(i) 4 (ii) 2 (iii) 3 (iv) 5 (v) 0

Assignment Key

1) (i)	2) (ii)	3) (i)	4) (v)	5) (v)	6) (v)
7) (ii)	8) (i)	9) (i)	10) (iii)	11) (iii)	12) (iii)