

MPS22-HW#15

290: 1, 2, 7, 8

269: 5, 9

270: 17

271: 20, 26, 29

272: 44

249: 32

Select the correct number that corresponds to the right answer. There are more answers than questions. The answers may be repeated.

1) It is complete

17) 2, -1 odd multiplicity and -2 even

2) It is not complete

multiplicity

3) 54

18) All real numbers  $-5/2$

4) Yes

19)  $-9 \leq x \leq 3$  and  $-20 \leq y \leq 40$

5) No

20)  $-20 \leq x \leq 40$  and  $-9 \leq y \leq 3$

6) Even; Positive; -2, 0 and 2; 4

21) All real numbers except 3 and  $\frac{1}{2}$

7) Odd; Negative; -2, 0 and 2; 4

22) All real numbers except 3 and  $-1/2$

8) Even; Negative; -2, 0 and 2; 4

23) Horizontal asymptotes  $x = 1$  and  $x = 6$

9) a

24) Vertical asymptotes  $x = -1$  and  $x = 6$

10) b

25) Degree 3, no; Degree 4, yes; Degree 5, no

11) c

12) d

13) e

14) Vertical asymptotes  $x = 0$  and  $x = \frac{-7 \pm \sqrt{41}}{2}$

15) -2, -1 odd multiplicity and 2 even

multiplicity

16) All real numbers except  $5/2$