

**MPS22-HW#16**

**290: 4, 9, 13, 14**

**269: 6**

**270: 11, 18**

**271: 21, 27, 41ab**

**272: 45**

**249: 33**

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

**1) Yes**

**2) No**

**3) No, Yes, No**

**4) No, No, No**

**5) No, No, Yes**

**6) a**

**7) b**

**8) c**

**9) d**

**10) e**

**11) f**

**12) Complete**

**13) Not complete**

**14) All real numbers except 0 and  $\pm\sqrt{6}$**

**15)  $y = 3/2$ ; any window with  $-20 \leq x \leq 20$**

**16) 5**

**17) 6**

**18) Hole at  $x = 0$ ; vertical asymptote  $x = -1$**

**19) -2, 2 even multiplicity**

**20) -2, 2 odd multiplicity**

**21)  $y = 3$ ; any window with  $-115 \leq x \leq 110$**

**22) Degree 3 has 2 local extrema of either 2 or**

**0; it shows the only possible solutions**

**23) Degree 3 has 2 local extrema of either 2 or**

**1; it shows the only possible solutions**