

Math 099 - Winter 2017 Key

1. $\frac{1}{4p^3}$

2. $\frac{xz^3}{9y^4}$

3. 125

4. $\frac{h}{h-5}$

5. $\frac{a+1}{a+7}$

6. $\frac{2x}{(x+1)(x-1)}$

7. $2y^2 + \sqrt{3}y - 3$

8. $\log\left(\frac{x^3}{w^2}\right)$

9. $n(2m+1)(m-3)$

10. $-1, \frac{13}{5}$

11. $1.79, -1.12$

12. 500

13. $-5, 4$

14. 9.45

15. 2

16. \$180

17. a) 3

b) 3 or 2.9

c) $(-\infty, 1.5]$

d) $(-\infty, 9]$

18. a) $H = 0.6d + 12$

b) 24cm

19. a) $P(t) = 2^t$

b) 4,096

20. a) 7,200 sq ft

b) 62.5 feet

c) 7,812.5 sq. feet

21. 118 ft

22. Apple pie: \$4

key lime pie: \$14

23. a) $\frac{1}{2}$

b) -5

c) $\frac{2}{c}$

d) -3

24. a) $\log_6 X$

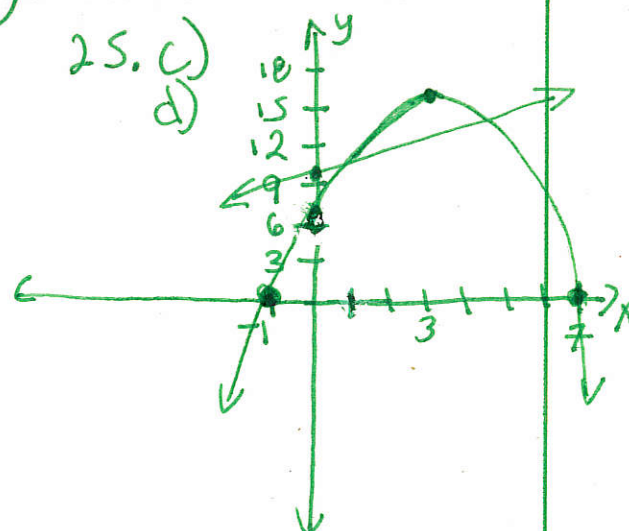
24. b) $C = 16$

25. a) $(0, 7)$

b) $(-1, 0)$

$(7, 0)$

25. c)
d)



e) $(0.70, 10.70)$
 $(4.30, 14.30)$