

Summer Assignment for Calculus I (M115)

Answer Section

MULTIPLE CHOICE

1. B
2. C
3. B
4. C
5. B
6. C
7. D
8. D
9. B
10. A
11. B
12. C
13. A
14. A
15. B
16. C
17. C
18. B
19. D
20. B

PROBLEM

21. x-intercepts: $x = 2, \pm 5$; y-intercept: $y = -100$
22. $x = \ln(8) - 6$
23. $\frac{\pi}{6}$
24. $\theta = \frac{\pi}{12}, \frac{11\pi}{12}, \frac{13\pi}{12}, \frac{23\pi}{12}$
25. $-\frac{27}{8}$
26. $\theta = \frac{\pi}{2}, \frac{3\pi}{2}, \frac{7\pi}{6}, \frac{11\pi}{6}$
27. $\frac{1}{2}$
28. ∞
29. -2
30. horizontal asymptote: $y = 0$; vertical asymptotes: $x = 0, -12, 7$