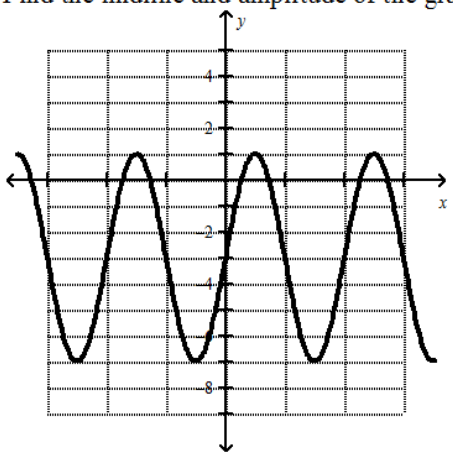
Algebra 2 - Trig Ratios - Study Guide

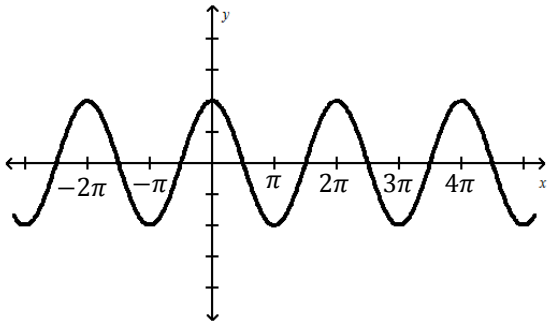
Answer Section

1. $\frac{\pi}{4}$
2. $\frac{16\pi}{9}$
3. $\frac{15\pi}{4}$
4. 108°
5. –315°
6. –70°
7. 3rd quadrant
8. second quadrant
9. 250°
10. $231°, -129°$
11. $\frac{11\pi}{4}, -\frac{5\pi}{4}$
12. $\frac{\sqrt{15}}{3}$
13. $\frac{2\sqrt{7}}{7}$
14. $\sqrt{3}$
15. $-\frac{\sqrt{2}}{2}$
16. $\frac{\sqrt{2}}{2}$
17. 2
18. $\frac{\sqrt{2}}{2}$
19. 0
20. $\frac{-\sqrt{3}}{3}$
21. $\frac{\sqrt{3}}{2}$
22. $\sin\theta = -\frac{24}{25}$
23. $2\sqrt{10}$
24. $\cos\theta = \frac{8}{17}$
25. $\tan\theta = \frac{12}{5}$
26. $\sin\theta = \frac{3}{\sqrt{10}}$
27. 4
28. $\frac{\sqrt{26}}{26}$
29. 12
30. 2/5
31. 2π
32. $\frac{2}{3}\pi$
33. -5
34. Oops. This problem should have been:
    Find the midline and amplitude of the graph below.

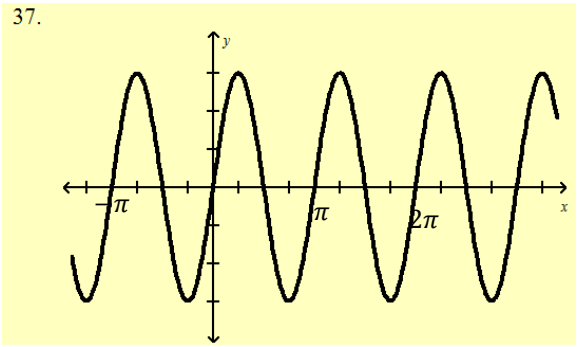


(Answer after #39)

35. $y = -2\cos 3\theta$
36.



37.



38. $\frac{2}{3}\pi$
39. 4

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And the answers to the corrected #34:
amplitude = 4
midline = -3