Summary

$$y = a\cos b(x-c) + d$$

- a: amplitude, radius
- b: period, $\frac{360^\circ}{b}$ (revolution)
- c: shift of 'c' to the right
- d: midline, sinusoidal axis

→ diameter = min to max

→ min = d − a

→ max = d + a

Range: $\{y \mid min \leq y \leq max\}$

Section 8.4

24. B
25. A
26. D
21. C
22. B
23. B
27. B
28. D
29. A
30. A
31. C
32. A
33. D
34. B
35. D
36. Amp = 2
midline $\Rightarrow y = -1$
period 120°
range $-3 \le y \le 1, y \in R$

$y = 2\cos 3(x) - 1$