

Homework #50

Answers

From Houghton-Mifflin

3rd Edition

p351-352:

11b) 315° 13b) 45° 14b) 330° 15b) 0° 19a) $-48.59^\circ = 311.41^\circ$ 19b) 134.43° 20a) $-80.54^\circ = 279.46^\circ$ 20b) 86.82° 32) -0.3 34) 3π

p331:

63) Because the size of the range is 8 ($0 \leq x \leq 8$), $a = 4$. The graph has had a vertical shift of 4 up so $d = 4$.

67) Since the range is $-3 \leq x \leq 3$ the amplitude is 3 and because the graph starts down $a = -3$. There are 2 full curves from 0 to 2π , therefore $b = 2$. There is no phase shift so $c = 0$.

An alternative answer would be $a = 3$, $b = 2$, and $c = \pi/2$. The horizontal shift to the right can be taken into account instead of the graph having the negative a value.