

Unit 8 Review Key

PreCalc Book

p. 346

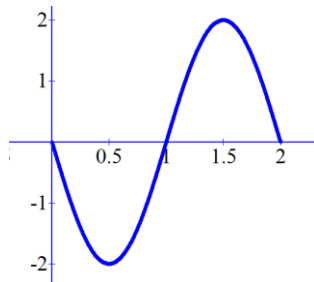
112) Period = 4π

$$\text{Amp} = \frac{3}{2}$$

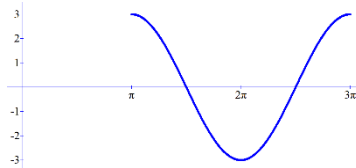
114) Period = 4

$$\text{Amp} = 4$$

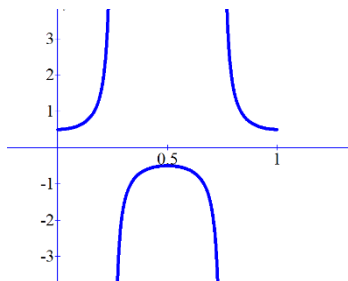
116)



122)



144)



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36) 615.14 meters

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2) $A = 22.33^\circ$, $B = 49.46^\circ$, $c = 4.93$

4) $B = 41.10^\circ$, $C = 113.90^\circ$, $c = 38.94$
AND $B = 138.90^\circ$, $C = 16.10^\circ$, $c = 11.81$

6) $B = 14.79^\circ$, $C = 15.21^\circ$, $c = 4.93$

Additional Problems:

1a) $\frac{\sqrt{2}}{2}$

b) -1

c) -2

d) *undefined*

2a) 210°

b) 120°

c) $\frac{3\pi}{4}$

3) $y = 3 \cos 2x + 2$
 $y = 3 \sin 2 \left(x + \frac{\pi}{4} \right) + 2$

4a) 3.38, 6.05

b) 140.34° , 219.66°

c) 66.72° , 246.72°

5) 80.68 feet

6) 158.97 m

7) $\frac{(x+3)}{x(x+1)}$

8) $\frac{x(x+1)}{2(x+3)}$

9) $\frac{2}{x-3}$

10) $(x+2)(4x-3)$

11) $2(3x+1)(3x-1)$

12) $(3x+4)(5x-4)$

13) $(3x-2)(x+4)$

14) $7(2x+1)(3x+1)$