

PRECALCULUS QUIZ # 4

NO BOOKS, NOTES OR CALCULATORS

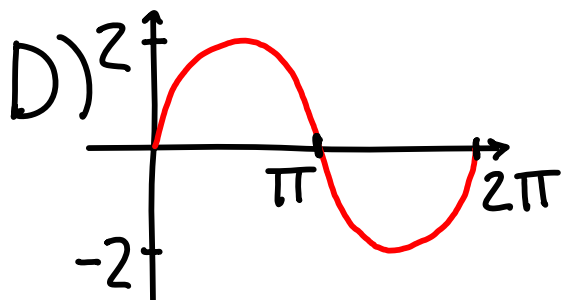
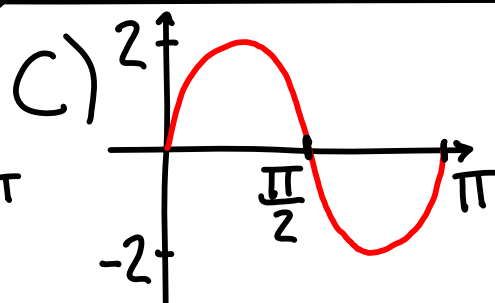
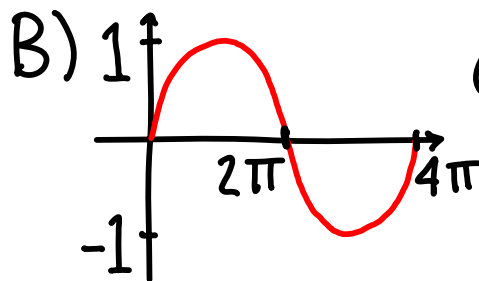
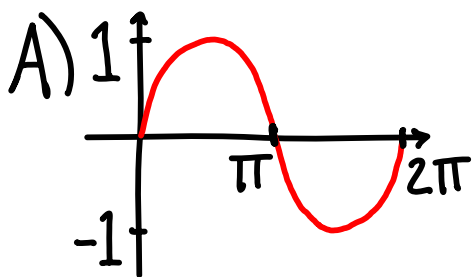
USE A PINK PAPER SCORE. **TEST FORM A**

#1) WHICH OF THE FOLLOWING IS A GRAPH OF $y = 2\sin(x) \Rightarrow D$

#2) WHICH OF THE FOLLOWING IS A GRAPH OF $y = \sin(2x) \Rightarrow E$

#3) WHICH OF THE FOLLOWING IS A GRAPH OF $y = \sin(x) + 2 \Rightarrow E$

#4) WHICH OF THE FOLLOWING IS A GRAPH OF $y = 2\sin(2x) \Rightarrow C$



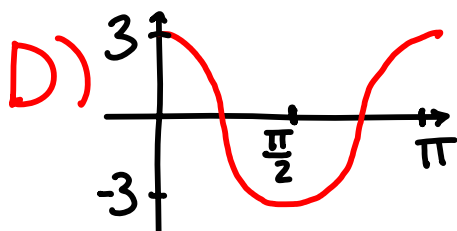
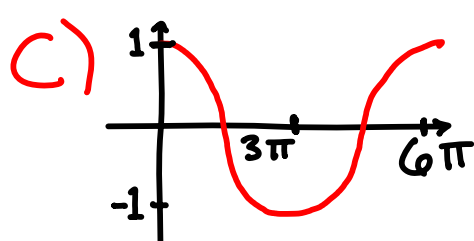
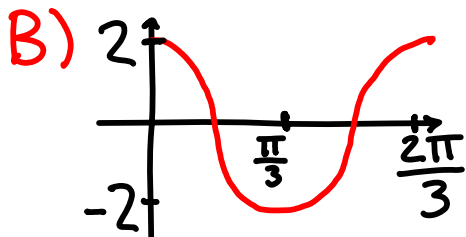
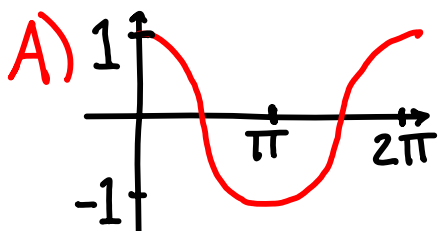
E) NONE OF THE ABOVE

#5) WHICH OF THE FOLLOWING IS A GRAPH OF $y = 3 \cos(x) \Rightarrow E$

#6) WHICH OF THE FOLLOWING IS A GRAPH OF $y = 3 \cos(2x) \Rightarrow D$

#7) WHICH OF THE FOLLOWING IS A GRAPH OF $y = 2 \cos(3x) \Rightarrow B$

#8) WHICH OF THE FOLLOWING IS A GRAPH OF $y = \cos(2x) + 1 \Rightarrow E$



E) NONE OF THE ABOVE

#9) WHAT IS THE PERIOD OF $y = 3 \cos(4x - 2) + 9$?

$$T = 2\pi/\omega = 2\pi/4 = \pi/2 \Rightarrow D$$

A) 4π B) 8π C) $\pi/4$ D) $\pi/2$ E) NONE OF THE ABOVE

#10) WHICH TWO FUNCTIONS HAVE IDENTICAL GRAPHS?

A) $y = \sin^2(x)$ B) $y = 1 + \cos^2(x)$ C) $y = 1 + \tan^2(x)$
 $y = \cos^2(x)$ $y = \sin^2(x)$ $y = \sec^2(x)$

D) $y = 1 - \cot^2(x)$ E) NONE OF THE ABOVE
 $y = \csc^2(x)$

$1 + \tan^2(x) = \sec^2(x)$ for any x in their domains, therefore they have identical graphs $\Rightarrow C$