

1. Convert each of the following angles from degrees to radians:

(a)  $46^\circ 22'$  (b)  $251^\circ 53'$  (c)  $300^\circ$  (d)  $57^\circ 18'$

(e)  $-30^\circ 30'$  (f)  $519^\circ 41'$

2. Convert each of the following angles from radians to degrees:

(a) 0.5 (b) 1.2581 (c) 6.821 (d) 0.0012

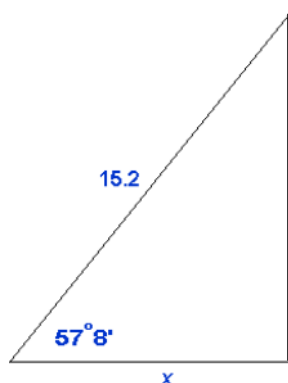
(e) 21.41 (f) -1.729

3. Unless it is specified otherwise, the angle is in radians. Make sure that the correct mode (degree or radian) is selected. For details, please refer to your calculator's manual.

Use your calculator to find

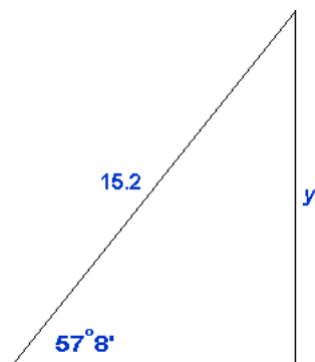
(a)  $\sin(1.723)$  (b)  $\cos(35^\circ 22')$  (c)  $\sin(217^\circ 47')$  (d)  $\cos(-4.912)$

4.



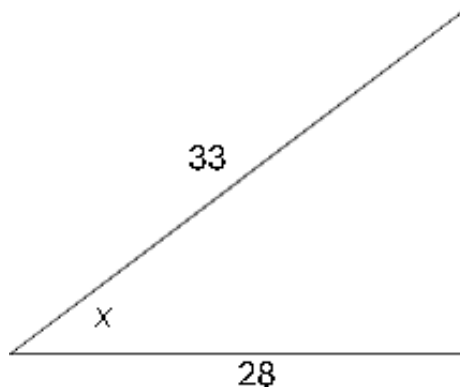
- a.  $x = 8.52$
- b.  $x = 3.97$
- c.  $x = 8.25$
- d.  $x = 4.11$
- e. None of these.

5.



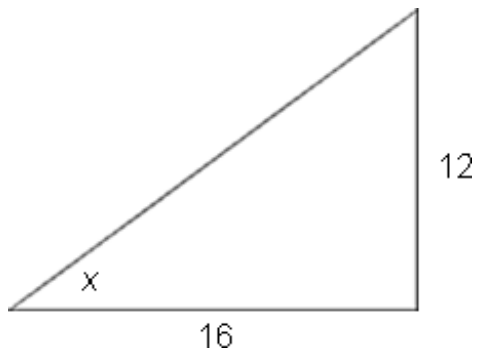
- a.  $y = 12.77$
- b.  $y = 8.25$
- c.  $y = 10.57$
- d.  $x = 6.42$
- e. None of these

6.



- a.  $x = 34^{\circ} 12'$
- b.  $x = 43^{\circ} 32'$
- c.  $x = 31^{\circ} 47'$
- d.  $x = 33^{\circ} 12'$
- e. None of these

7.



- a.  $x = 34^{\circ} 12'$
- b.  $x = 36^{\circ} 52'$
- c.  $x = 53^{\circ} 8'$
- d.  $x = 35^{\circ} 2'$
- e. None of these