Solve each equation.

245) $3(1 - 3x) - 7(1 - x) = -2x + 3$

246) $3(1 + r) - 7r = -5(1 - r) - 7r$

247) $n + 4 + n + 6 = 6(8n - 5) + 2(2n - 5)$

248) $3(1 - 5k) = -3(k + 7)$

Write the slope-intercept form of the equation of each line given the slope and y-intercept.

249) Slope = -1, y-intercept = -5

250) Slope = $\frac{10}{3}$, y-intercept = -5

Write the slope-intercept form of the equation of the line through the given point with the given slope.

251) through: $(2, -4)$, slope = -3

252) through: $(5, 3)$, slope = $\frac{1}{5}$

Write the slope-intercept form of the equation of the line through the given points.

253) through: $(0, 4)$ and $(-1, 0)$

254) through: $(-4, 5)$ and $(-4, 3)$

255) through: $(-4, -2)$ and $(-1, -5)$

256) through: $(0, -1)$ and $(4, 0)$

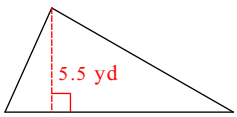
Write the slope-intercept form of the equation of the line described.

257) through: $(-3, 4)$, parallel to $y = \frac{1}{3}x - 5$

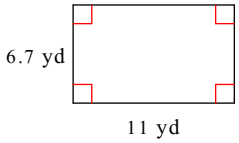
258) through: $(2, 4)$, parallel to $y = -\frac{2}{3}x + 3$

Find the area of each.

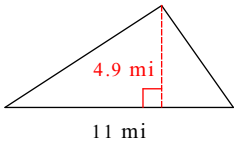
259)



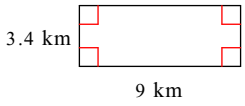
260)



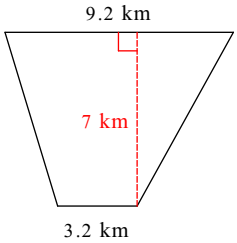
261)



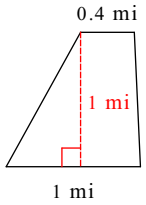
262)



263)

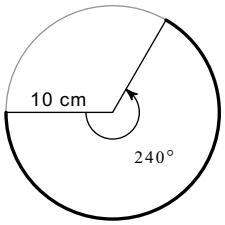


264)

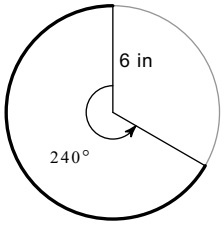


Find the length of each arc.

265)

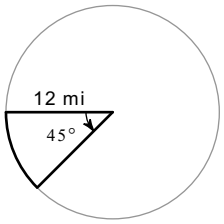


266)

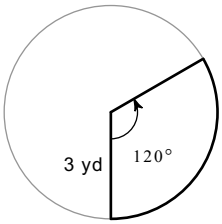


Find the area of each sector.

267)

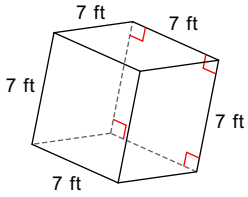


268)

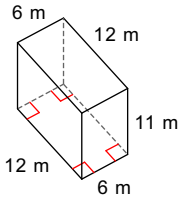


Find the volume of each figure. Round your answers to the nearest hundredth, if necessary.

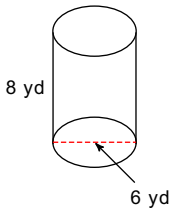
269)



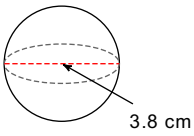
270)



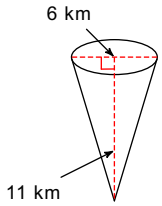
271)



272)



273)



274)