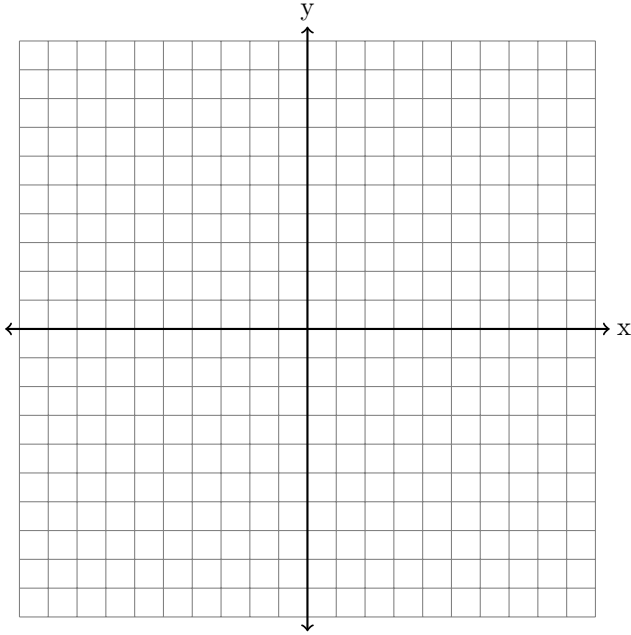
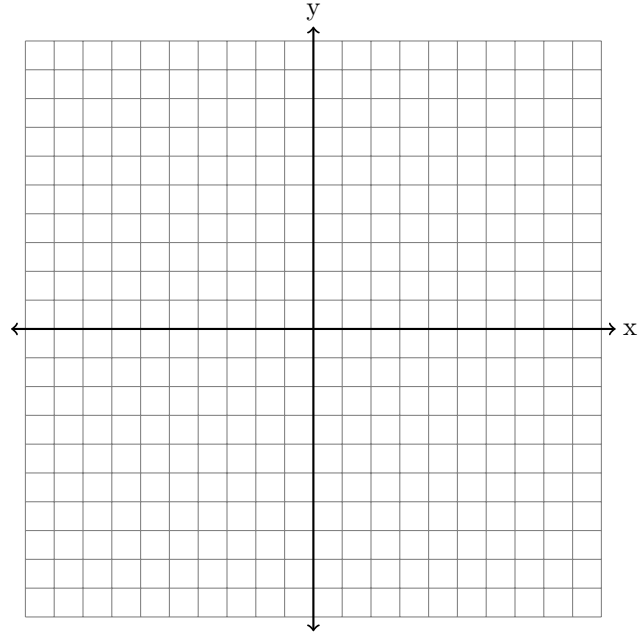


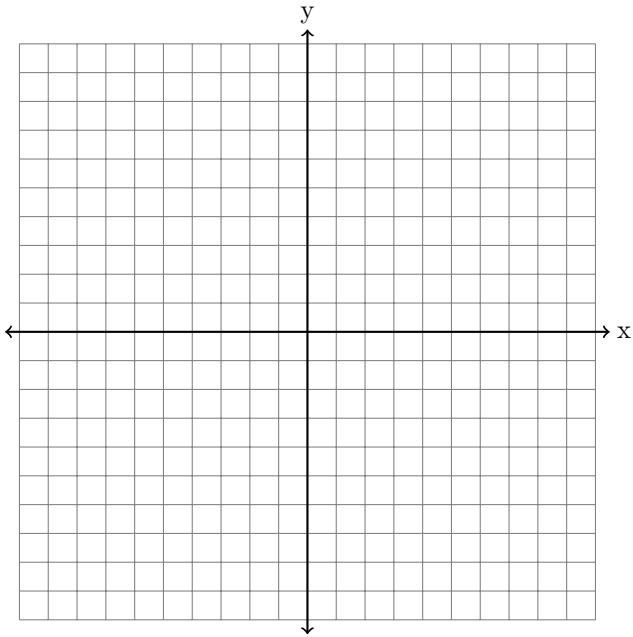
1. Given  $N(7,2)$  and  $K(1,6)$ , how long is  $\overline{NK}$  to the nearest hundredth.



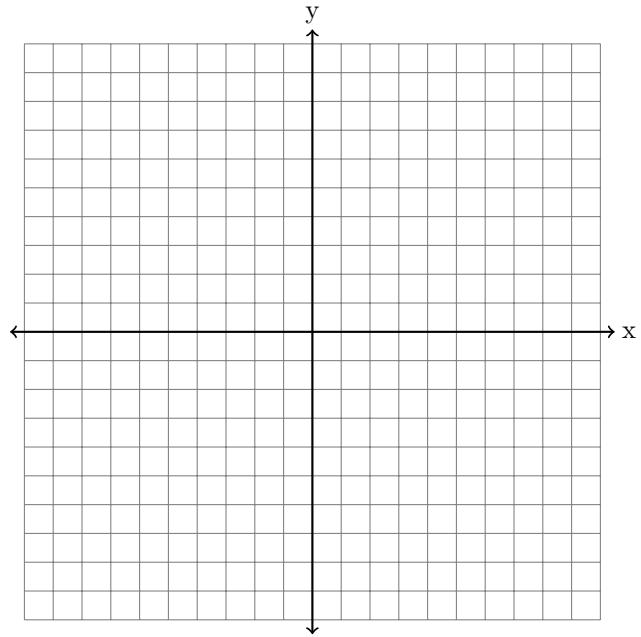
2. Given  $E(7,10)$  and  $X(-5,-9)$ , how long is  $\overline{EX}$  to the nearest thousandth.



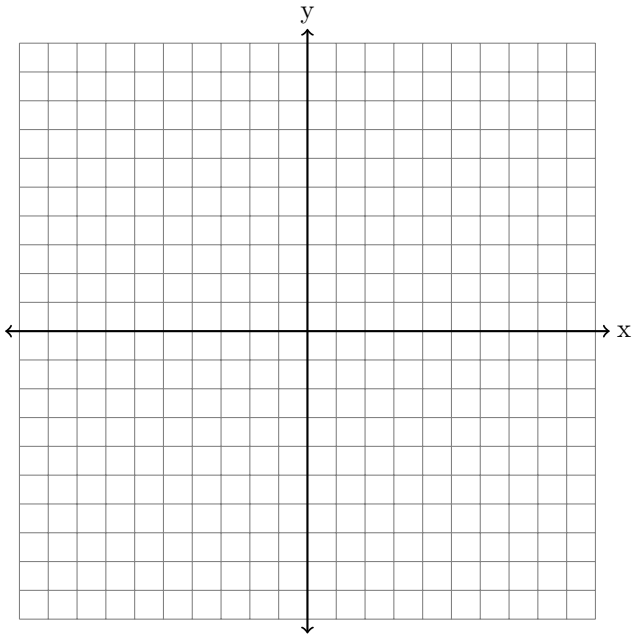
3. Given  $D(-2,-8)$  and  $E(6,1)$ , how long is  $\overline{DE}$  to the nearest tenth.



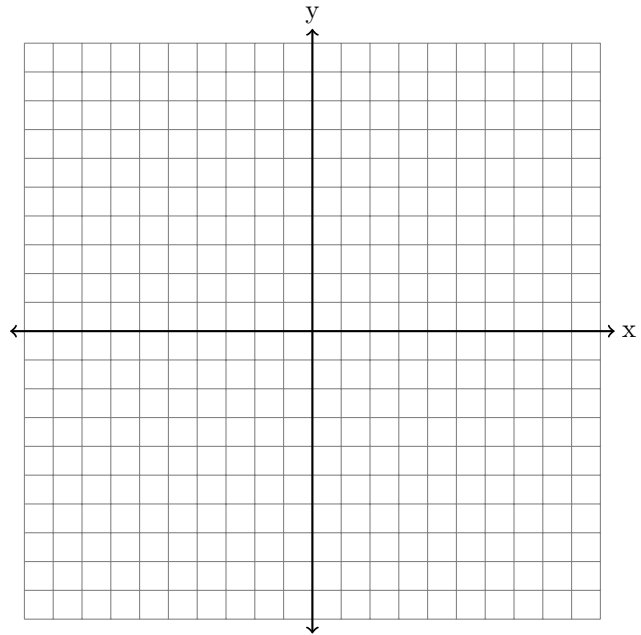
4. Given  $T(-4,4)$  and  $W(2,-10)$ , how long is  $\overline{TW}$  to the nearest tenth.



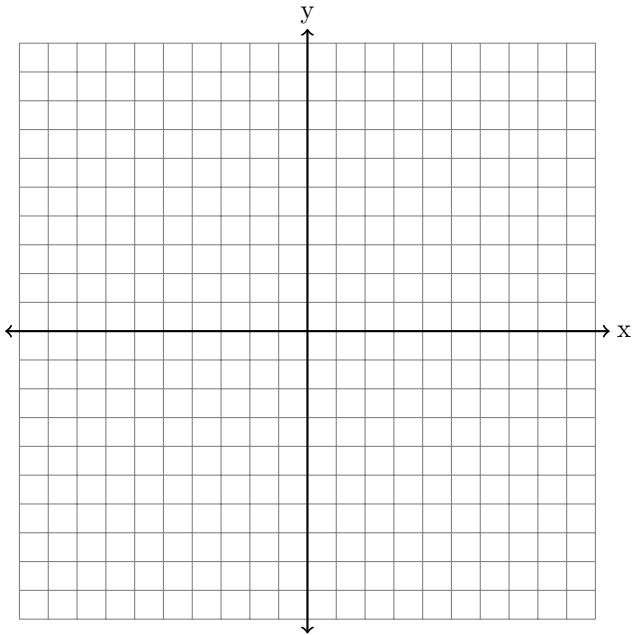
5. Given Circle E with center  $(3,5)$ , if a point on the circle is  $M(-8,-6)$ , how long is the radius of the circle to the nearest hundredth.



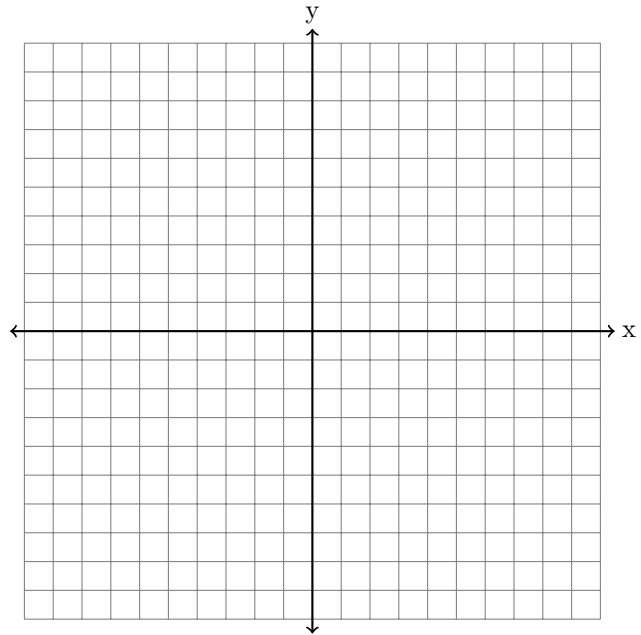
6. Given Circle A with center  $(-3,0)$ , if a point on the circle is  $I(-7,-8)$ , how long is the radius of the circle to the nearest hundredth.



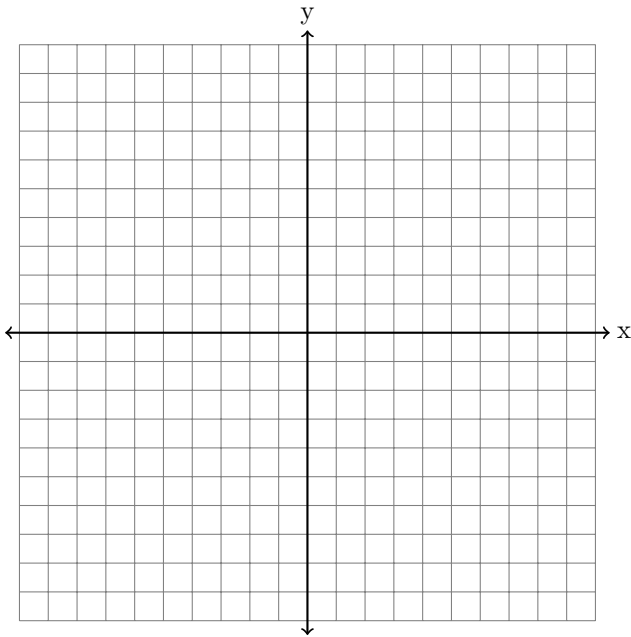
7. Given Circle B with center  $(1,10)$ , if a point on the circle is  $K(6,-4)$ , how long is the radius of the circle to the nearest tenth.



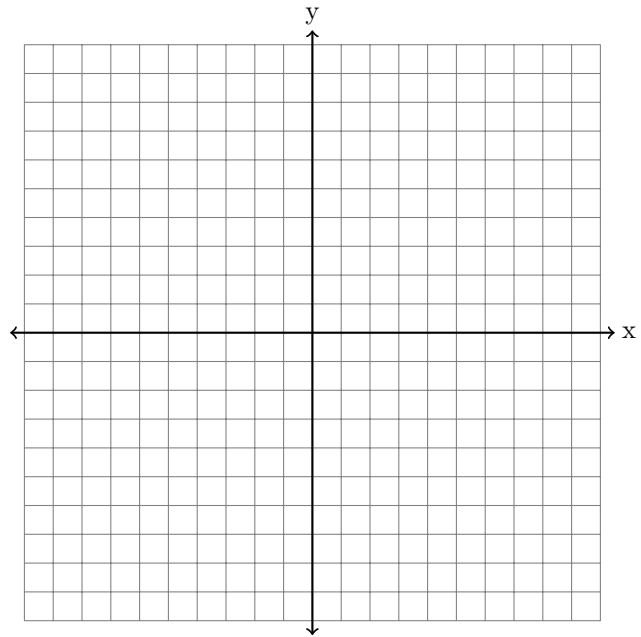
8. Given Circle N with center  $(6,9)$ , if a point on the circle is  $V(-1,-9)$ , how long is the radius of the circle to the nearest tenth.



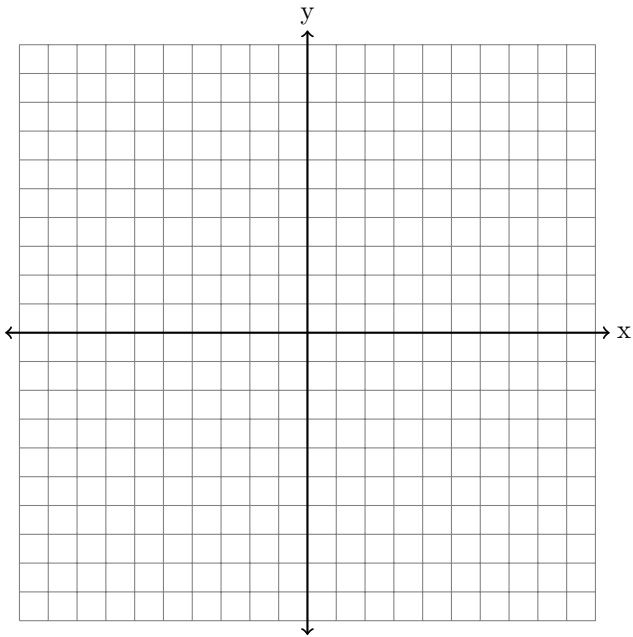
9. Given that the endpoints of a side of a regular nonagon are  $V(-7,4)$  and  $S(5,-4)$ , what is the perimeter of the regular nonagon to the nearest hundredth.



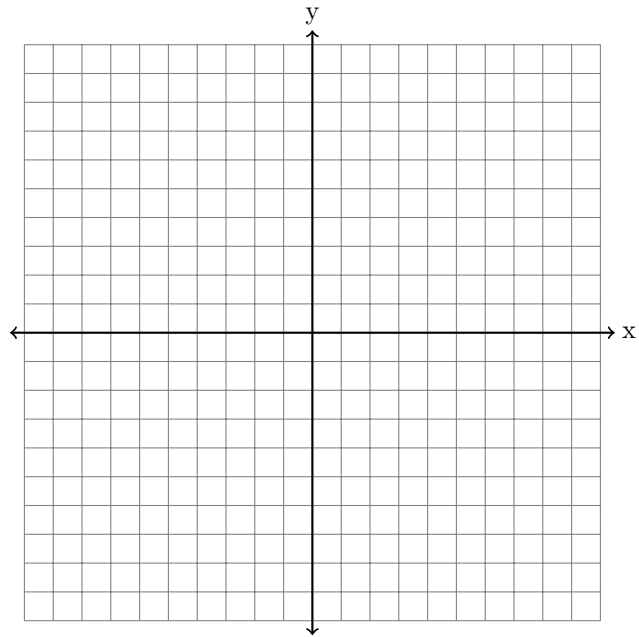
10. Given that the endpoints of a side of a regular pentagon are  $E(-3,1)$  and  $Y(5,7)$ , what is the perimeter of the regular pentagon to the nearest whole number.



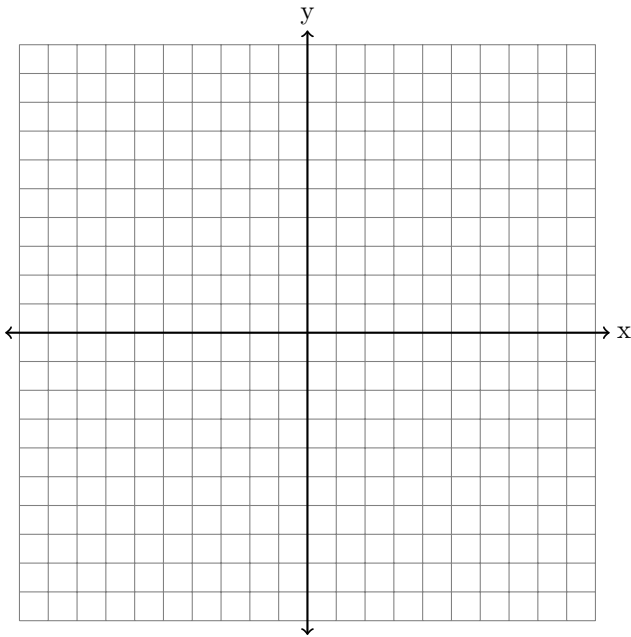
11. Given that the endpoints of a side of a regular octagon are  $Y(10,-1)$  and  $L(5,7)$ , what is the perimeter of the regular octagon to the nearest thousandth.



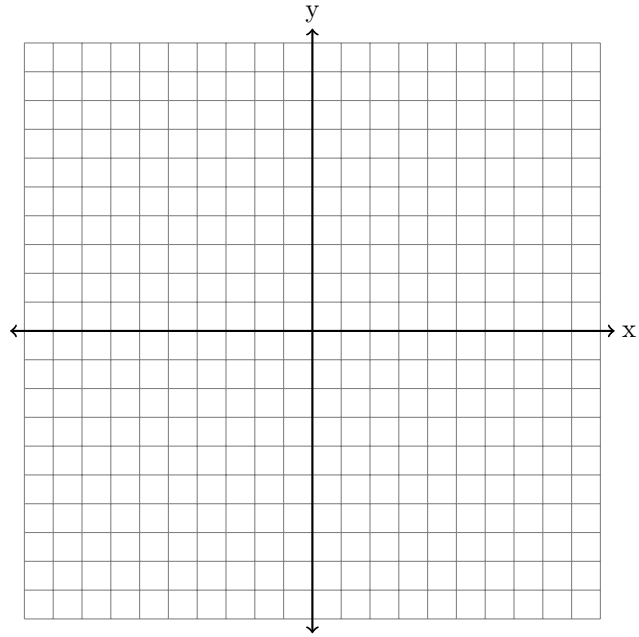
12. Given that the endpoints of a side of a regular octagon are  $O(0,0)$  and  $D(6,7)$ , what is the perimeter of the regular octagon to the nearest tenth.



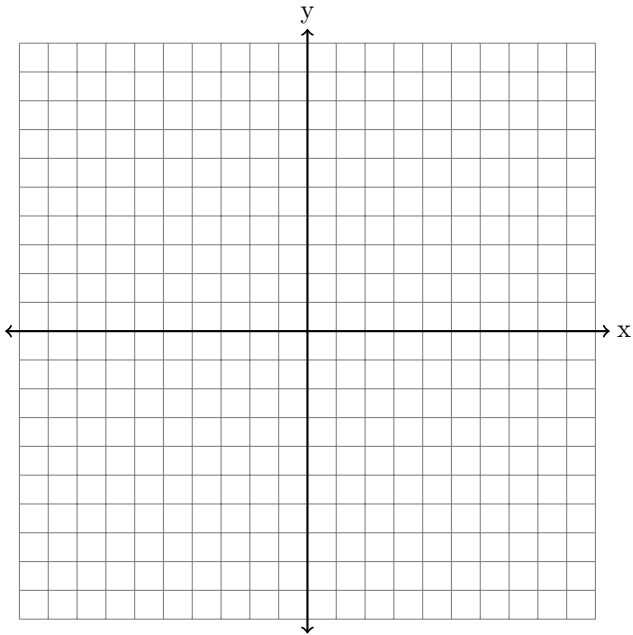
13. Given that the endpoints of a side of a regular hexagon are  $F(-1,-3)$  and  $I(-4,10)$ , what is the perimeter of the regular hexagon to the nearest thousandth.



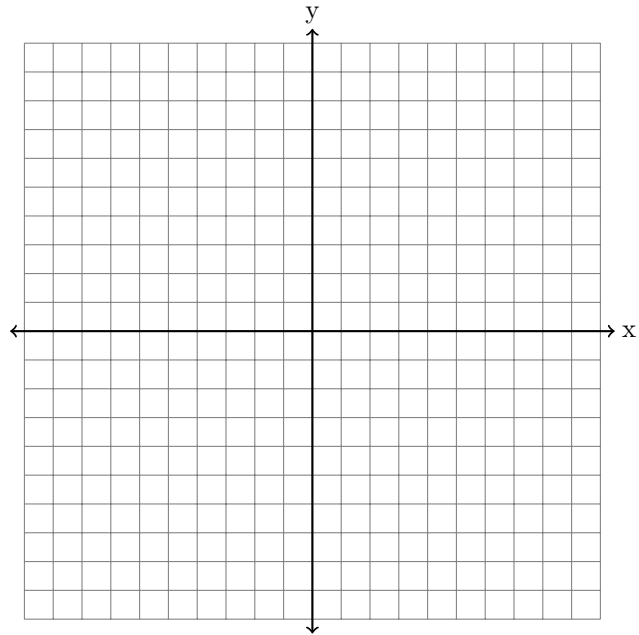
14. Given Circle K with center  $(5,7)$ , if a point on the circle is  $A(8,-10)$ , how long is the radius of the circle to the nearest tenth.



15. Given Circle S with center  $(-1,6)$ , if a point on the circle is  $Z(3,3)$ , how long is the radius of the circle to the nearest whole number.

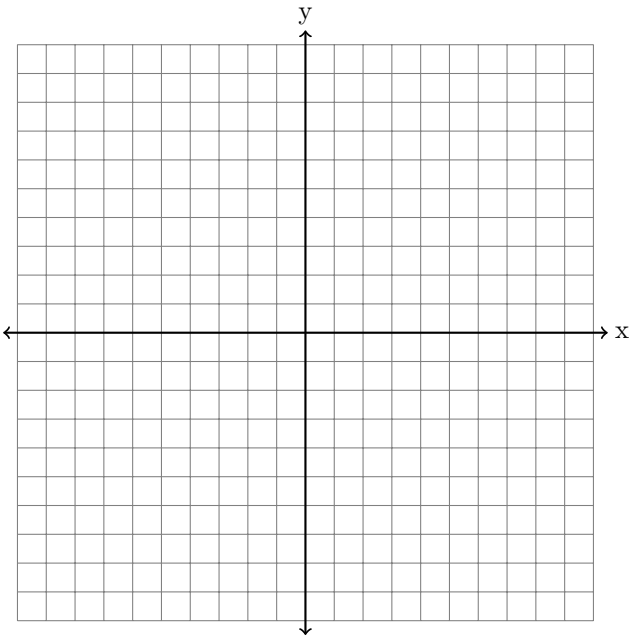


16. Given Circle U with center  $(-8,-6)$ , if a point on the circle is  $R(4,3)$ , how long is the radius of the circle to the nearest thousandth.

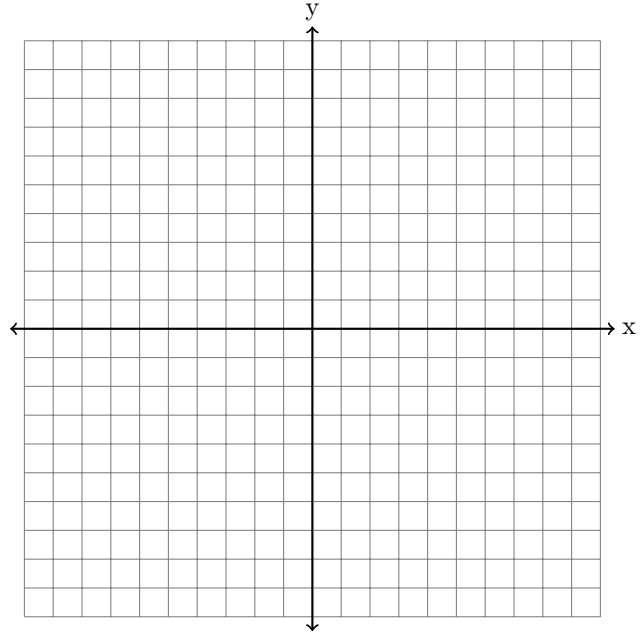




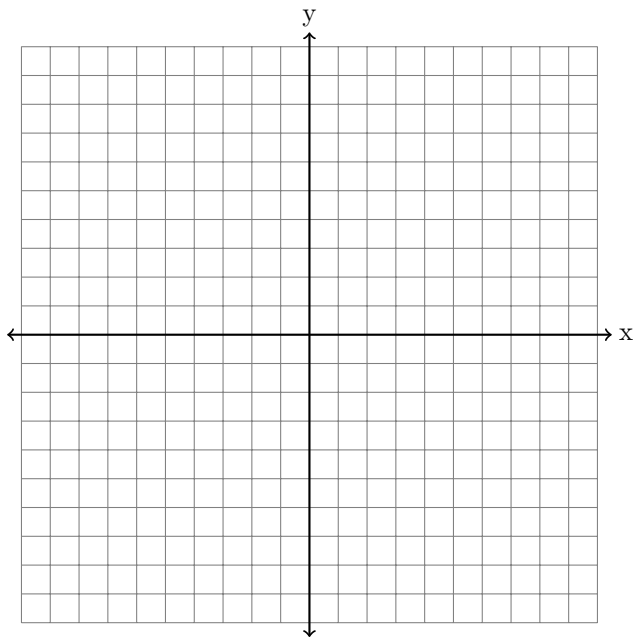
17. Given that the endpoints of a side of a regular pentagon are  $V(0,-8)$  and  $L(5,3)$ , what is the perimeter of the regular pentagon to the nearest thousandth.



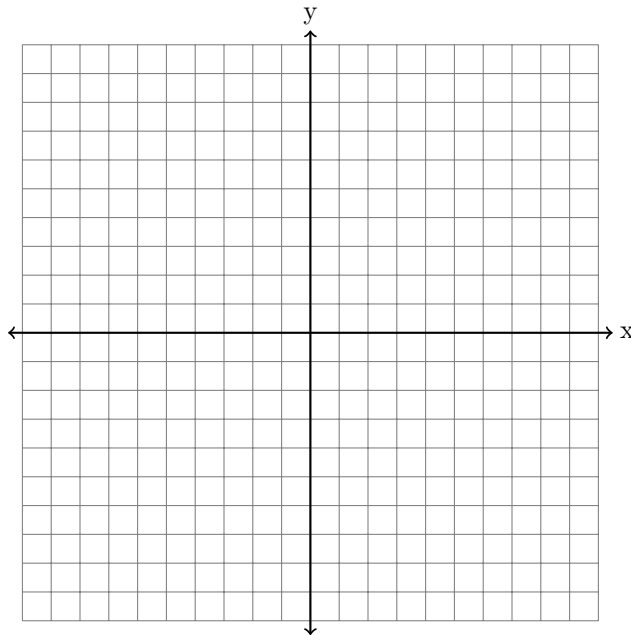
18. Given  $K(9,-1)$  and  $S(-6,-10)$ , how long is  $\overline{KS}$  to the nearest whole number.



19. Given that the endpoints of a side of a regular decagon are  $G(6,-7)$  and  $H(-2,-4)$ , what is the perimeter of the regular decagon to the nearest hundredth.



20. Given  $Z(10,-6)$  and  $Y(-10,8)$ , how long is  $\overline{ZY}$  to the nearest tenth.



21. Given the line segment  $\overline{AN}$ ,  $A(-9,-8)$ , and  $N(9,4)$ , determine the coordinates of the point  $C$  that partitions  $\overline{AN}$ , such that  $AC$  to  $CN$  is in a ratio of 1 to 5.

22. Given the line segment  $\overline{CL}$ ,  $C(-10,-8)$ , and  $L(6,-4)$ , determine the coordinates of the point  $R$  that divides  $\overline{CL}$ , such that  $CR:RL$  is in a ratio of 3 to 1.

23. Given the line segment  $DF$ ,  $D(-10,0)$ , and  $F(8,9)$ , determine the coordinates of the point  $H$  that partitions  $\overline{DF}$ , such that  $DH:HF$  is in a ratio of 2:1.

24. Given the directed line segment  $UP$ ,  $U(-1,-7)$ , and  $P(6,7)$ , determine the coordinates of the point  $L$  that partitions  $\overline{UP}$  into ratio of 6:1.



1.  $NK = 7.21$
2.  $EX = 22.472$
3.  $DE = 12$
4.  $TW = 15.2$
5. The radius is 15.56.
6. The radius is 8.94.
7. The radius is 14.9.
8. The radius is 19.3.
9. 129.8
10. 50
11. 75.472
12. 73.8
13. 80.05
14. The radius is 17.3.
15. The radius is 5.
16. The radius is 15.
17. 60.415
18.  $KS = 17$
19. 85.44
20.  $ZY = 24.4$
21.  $C = (-6, -6)$
22.  $R = (2, -5)$
23.  $H = (2, 6)$
24.  $L = (5, 5)$