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Conic sections exercises with answers pdf

Exercise 1 Calculates the distance and middle point between the two given points. $\sqrt{(0,2) \text{ and } (-4,-1)} = \sqrt{((6,0) \text{ and } (-2,6))}$ $\sqrt{(-2,4) \text{ and } (-6,-8)} = \sqrt{(\left(\frac{1}{2}, -1\right) \text{ and } (\left(-\frac{5}{2}, -9\right))}$ $\sqrt{(\left(\frac{5}{2}, 1\right) \text{ and } (\left(0, -3\right))} = \sqrt{\left(\frac{5}{2}\right)^2 + (-3)^2} = \sqrt{25 + 9} = \sqrt{34}$. Middle point: $(\frac{-2+(-4)}{2}, \frac{2+(-1)}{2}) = (-3, \frac{1}{2})$.

Exercise 2 Determines the area of a circle with a diameter defined by two certain points. $\sqrt{((-3,3) \text{ and } (3,-3))} = \sqrt{((-2,-9) \text{ and } (10,-15))}$ $\sqrt{(\left(\frac{1}{2}, \frac{1}{2}\right) \text{ and } (\left(-\frac{1}{2}, -\frac{1}{2}\right))} = \sqrt{(\left(\frac{5}{2}, -\frac{5}{2}\right) \text{ and } (\left(-\frac{5}{2}, \frac{5}{2}\right))}$. Middle point: $(\frac{1}{2}, \frac{1}{2})$. Radius: $\sqrt{\left(\frac{5}{2}\right)^2 + \left(\frac{5}{2}\right)^2} = \sqrt{25 + 25} = \sqrt{50} = 5\sqrt{2}$. Area: $\pi r^2 = \pi \cdot (5\sqrt{2})^2 = 50\pi$.

Exercise 3 Rewritten as standard and given vertex. $\sqrt{y=x^2-10x+33} = \sqrt{y=(x-5)^2+13}$. Middle point: $(5, 13)$. Vertex: $(5, 13)$.

Exercise 4 Rewritten as standard and graph. Be sure to find the top and all intercepts. $y=x^2-20x+75 = (x-10)^2+75$. Top: $(10, 75)$. Intercepts: $x=10 \pm \sqrt{75}$. Vertices: $(5, 13)$.

Exercise 5 Rewritten as standard form for the equation of a circle as standard. $\sqrt{(x-6)^2+(y-10)^2}=10$. Center: $(6, 10)$. Radius: $\sqrt{10^2} = 10$.

Exercise 6 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-2)^2+(y-5)^2}=5$. Center: $(2, 5)$. Radius: $\sqrt{5^2} = 5$.

Exercise 7 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-3)^2+(y-12)^2}=12$. Center: $(3, 12)$. Radius: $\sqrt{12^2} = 12$.

Exercise 8 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-4)^2+(y-2)^2}=2$. Center: $(4, 2)$. Radius: $\sqrt{2^2} = 2$.

Exercise 9 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-1)^2+(y-1)^2}=4$. Center: $(1, 1)$. Radius: $\sqrt{4^2} = 4$.

Exercise 10 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-7)^2+(y-7)^2}=7$. Center: $(7, 7)$. Radius: $\sqrt{7^2} = 7$.

Exercise 11 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-12)^2+(y-16)^2}=16$. Center: $(12, 16)$. Radius: $\sqrt{16^2} = 16$.

Exercise 12 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-10)^2+(y-10)^2}=10$. Center: $(10, 10)$. Radius: $\sqrt{10^2} = 10$.

Exercise 13 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-15)^2+(y-15)^2}=15$. Center: $(15, 15)$. Radius: $\sqrt{15^2} = 15$.

Exercise 14 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-20)^2+(y-20)^2}=20$. Center: $(20, 20)$. Radius: $\sqrt{20^2} = 20$.

Exercise 15 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-25)^2+(y-25)^2}=25$. Center: $(25, 25)$. Radius: $\sqrt{25^2} = 25$.

Exercise 16 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-30)^2+(y-30)^2}=30$. Center: $(30, 30)$. Radius: $\sqrt{30^2} = 30$.

Exercise 17 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-35)^2+(y-35)^2}=35$. Center: $(35, 35)$. Radius: $\sqrt{35^2} = 35$.

Exercise 18 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-40)^2+(y-40)^2}=40$. Center: $(40, 40)$. Radius: $\sqrt{40^2} = 40$.

Exercise 19 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-45)^2+(y-45)^2}=45$. Center: $(45, 45)$. Radius: $\sqrt{45^2} = 45$.

Exercise 20 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-50)^2+(y-50)^2}=50$. Center: $(50, 50)$. Radius: $\sqrt{50^2} = 50$.

Exercise 21 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-55)^2+(y-55)^2}=55$. Center: $(55, 55)$. Radius: $\sqrt{55^2} = 55$.

Exercise 22 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-60)^2+(y-60)^2}=60$. Center: $(60, 60)$. Radius: $\sqrt{60^2} = 60$.

Exercise 23 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-65)^2+(y-65)^2}=65$. Center: $(65, 65)$. Radius: $\sqrt{65^2} = 65$.

Exercise 24 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-70)^2+(y-70)^2}=70$. Center: $(70, 70)$. Radius: $\sqrt{70^2} = 70$.

Exercise 25 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-75)^2+(y-75)^2}=75$. Center: $(75, 75)$. Radius: $\sqrt{75^2} = 75$.

Exercise 26 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-80)^2+(y-80)^2}=80$. Center: $(80, 80)$. Radius: $\sqrt{80^2} = 80$.

Exercise 27 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-85)^2+(y-85)^2}=85$. Center: $(85, 85)$. Radius: $\sqrt{85^2} = 85$.

Exercise 28 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-90)^2+(y-90)^2}=90$. Center: $(90, 90)$. Radius: $\sqrt{90^2} = 90$.

Exercise 29 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-95)^2+(y-95)^2}=95$. Center: $(95, 95)$. Radius: $\sqrt{95^2} = 95$.

Exercise 30 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-100)^2+(y-100)^2}=100$. Center: $(100, 100)$. Radius: $\sqrt{100^2} = 100$.

Exercise 31 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-105)^2+(y-105)^2}=105$. Center: $(105, 105)$. Radius: $\sqrt{105^2} = 105$.

Exercise 32 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-110)^2+(y-110)^2}=110$. Center: $(110, 110)$. Radius: $\sqrt{110^2} = 110$.

Exercise 33 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-115)^2+(y-115)^2}=115$. Center: $(115, 115)$. Radius: $\sqrt{115^2} = 115$.

Exercise 34 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-120)^2+(y-120)^2}=120$. Center: $(120, 120)$. Radius: $\sqrt{120^2} = 120$.

Exercise 35 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-125)^2+(y-125)^2}=125$. Center: $(125, 125)$. Radius: $\sqrt{125^2} = 125$.

Exercise 36 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-130)^2+(y-130)^2}=130$. Center: $(130, 130)$. Radius: $\sqrt{130^2} = 130$.

Exercise 37 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-135)^2+(y-135)^2}=135$. Center: $(135, 135)$. Radius: $\sqrt{135^2} = 135$.

Exercise 38 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-140)^2+(y-140)^2}=140$. Center: $(140, 140)$. Radius: $\sqrt{140^2} = 140$.

Exercise 39 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-145)^2+(y-145)^2}=145$. Center: $(145, 145)$. Radius: $\sqrt{145^2} = 145$.

Exercise 40 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-150)^2+(y-150)^2}=150$. Center: $(150, 150)$. Radius: $\sqrt{150^2} = 150$.

Exercise 41 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-155)^2+(y-155)^2}=155$. Center: $(155, 155)$. Radius: $\sqrt{155^2} = 155$.

Exercise 42 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-160)^2+(y-160)^2}=160$. Center: $(160, 160)$. Radius: $\sqrt{160^2} = 160$.

Exercise 43 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-165)^2+(y-165)^2}=165$. Center: $(165, 165)$. Radius: $\sqrt{165^2} = 165$.

Exercise 44 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-170)^2+(y-170)^2}=170$. Center: $(170, 170)$. Radius: $\sqrt{170^2} = 170$.

Exercise 45 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-175)^2+(y-175)^2}=175$. Center: $(175, 175)$. Radius: $\sqrt{175^2} = 175$.

Exercise 46 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-180)^2+(y-180)^2}=180$. Center: $(180, 180)$. Radius: $\sqrt{180^2} = 180$.

Exercise 47 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-185)^2+(y-185)^2}=185$. Center: $(185, 185)$. Radius: $\sqrt{185^2} = 185$.

Exercise 48 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-190)^2+(y-190)^2}=190$. Center: $(190, 190)$. Radius: $\sqrt{190^2} = 190$.

Exercise 49 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-195)^2+(y-195)^2}=195$. Center: $(195, 195)$. Radius: $\sqrt{195^2} = 195$.

Exercise 50 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-200)^2+(y-200)^2}=200$. Center: $(200, 200)$. Radius: $\sqrt{200^2} = 200$.

Exercise 51 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-205)^2+(y-205)^2}=205$. Center: $(205, 205)$. Radius: $\sqrt{205^2} = 205$.

Exercise 52 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-210)^2+(y-210)^2}=210$. Center: $(210, 210)$. Radius: $\sqrt{210^2} = 210$.

Exercise 53 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-215)^2+(y-215)^2}=215$. Center: $(215, 215)$. Radius: $\sqrt{215^2} = 215$.

Exercise 54 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-220)^2+(y-220)^2}=220$. Center: $(220, 220)$. Radius: $\sqrt{220^2} = 220$.

Exercise 55 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-225)^2+(y-225)^2}=225$. Center: $(225, 225)$. Radius: $\sqrt{225^2} = 225$.

Exercise 56 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-230)^2+(y-230)^2}=230$. Center: $(230, 230)$. Radius: $\sqrt{230^2} = 230$.

Exercise 57 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-235)^2+(y-235)^2}=235$. Center: $(235, 235)$. Radius: $\sqrt{235^2} = 235$.

Exercise 58 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-240)^2+(y-240)^2}=240$. Center: $(240, 240)$. Radius: $\sqrt{240^2} = 240$.

Exercise 59 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-245)^2+(y-245)^2}=245$. Center: $(245, 245)$. Radius: $\sqrt{245^2} = 245$.

Exercise 60 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-250)^2+(y-250)^2}=250$. Center: $(250, 250)$. Radius: $\sqrt{250^2} = 250$.

Exercise 61 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-255)^2+(y-255)^2}=255$. Center: $(255, 255)$. Radius: $\sqrt{255^2} = 255$.

Exercise 62 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-260)^2+(y-260)^2}=260$. Center: $(260, 260)$. Radius: $\sqrt{260^2} = 260$.

Exercise 63 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-265)^2+(y-265)^2}=265$. Center: $(265, 265)$. Radius: $\sqrt{265^2} = 265$.

Exercise 64 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-270)^2+(y-270)^2}=270$. Center: $(270, 270)$. Radius: $\sqrt{270^2} = 270$.

Exercise 65 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-275)^2+(y-275)^2}=275$. Center: $(275, 275)$. Radius: $\sqrt{275^2} = 275$.

Exercise 66 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-280)^2+(y-280)^2}=280$. Center: $(280, 280)$. Radius: $\sqrt{280^2} = 280$.

Exercise 67 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-285)^2+(y-285)^2}=285$. Center: $(285, 285)$. Radius: $\sqrt{285^2} = 285$.

Exercise 68 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-290)^2+(y-290)^2}=290$. Center: $(290, 290)$. Radius: $\sqrt{290^2} = 290$.

Exercise 69 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-295)^2+(y-295)^2}=295$. Center: $(295, 295)$. Radius: $\sqrt{295^2} = 295$.

Exercise 70 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-300)^2+(y-300)^2}=300$. Center: $(300, 300)$. Radius: $\sqrt{300^2} = 300$.

Exercise 71 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-305)^2+(y-305)^2}=305$. Center: $(305, 305)$. Radius: $\sqrt{305^2} = 305$.

Exercise 72 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-310)^2+(y-310)^2}=310$. Center: $(310, 310)$. Radius: $\sqrt{310^2} = 310$.

Exercise 73 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-315)^2+(y-315)^2}=315$. Center: $(315, 315)$. Radius: $\sqrt{315^2} = 315$.

Exercise 74 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-320)^2+(y-320)^2}=320$. Center: $(320, 320)$. Radius: $\sqrt{320^2} = 320$.

Exercise 75 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-325)^2+(y-325)^2}=325$. Center: $(325, 325)$. Radius: $\sqrt{325^2} = 325$.

Exercise 76 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-330)^2+(y-330)^2}=330$. Center: $(330, 330)$. Radius: $\sqrt{330^2} = 330$.

Exercise 77 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-335)^2+(y-335)^2}=335$. Center: $(335, 335)$. Radius: $\sqrt{335^2} = 335$.

Exercise 78 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-340)^2+(y-340)^2}=340$. Center: $(340, 340)$. Radius: $\sqrt{340^2} = 340$.

Exercise 79 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-345)^2+(y-345)^2}=345$. Center: $(345, 345)$. Radius: $\sqrt{345^2} = 345$.

Exercise 80 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-350)^2+(y-350)^2}=350$. Center: $(350, 350)$. Radius: $\sqrt{350^2} = 350$.

Exercise 81 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-355)^2+(y-355)^2}=355$. Center: $(355, 355)$. Radius: $\sqrt{355^2} = 355$.

Exercise 82 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-360)^2+(y-360)^2}=360$. Center: $(360, 360)$. Radius: $\sqrt{360^2} = 360$.

Exercise 83 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-365)^2+(y-365)^2}=365$. Center: $(365, 365)$. Radius: $\sqrt{365^2} = 365$.

Exercise 84 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-370)^2+(y-370)^2}=370$. Center: $(370, 370)$. Radius: $\sqrt{370^2} = 370$.

Exercise 85 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-375)^2+(y-375)^2}=375$. Center: $(375, 375)$. Radius: $\sqrt{375^2} = 375$.

Exercise 86 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-380)^2+(y-380)^2}=380$. Center: $(380, 380)$. Radius: $\sqrt{380^2} = 380$.

Exercise 87 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-385)^2+(y-385)^2}=385$. Center: $(385, 385)$. Radius: $\sqrt{385^2} = 385$.

Exercise 88 Rewrite the center and radius for the equation of a circle as standard. $\sqrt{(x-390)^2+(y-390)^2}=390$. Center: $(390, 390)$. Radius: $\sqrt{390^2} = 390$.

Exercise 89 Rewrite the center and radius for the equation of a circle

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