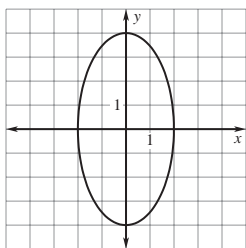


Answer Key

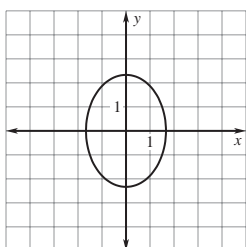
Practice C

1. $\frac{x^2}{4} + \frac{y^2}{16} = 1;$



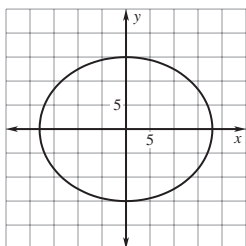
vertices: $(0, \pm 4);$
co-vertices: $(\pm 2, 0);$
foci: $(0, \pm 2\sqrt{3})$

2. $\frac{x^2}{\left(\frac{25}{9}\right)} + \frac{y^2}{\left(\frac{49}{9}\right)} = 1;$



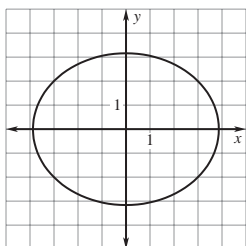
vertices: $(0, \pm \frac{7}{3});$
co-vertices: $(\pm \frac{5}{3}, 0);$
foci: $(0, \pm \frac{2\sqrt{6}}{3})$

3. $\frac{x^2}{324} + \frac{y^2}{225} = 1;$



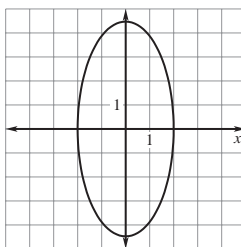
vertices: $(\pm 18, 0);$
co-vertices: $(0, \pm 15);$
foci: $(\pm 3\sqrt{11}, 0)$

4. $\frac{x^2}{15} + \frac{y^2}{10} = 1;$



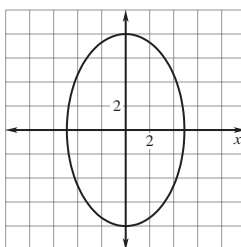
vertices: $(\pm \sqrt{15}, 0);$
co-vertices: $(0, \pm \sqrt{10});$
foci: $(\pm \sqrt{5}, 0)$

5. $\frac{x^2}{4} + \frac{y^2}{20} = 1;$



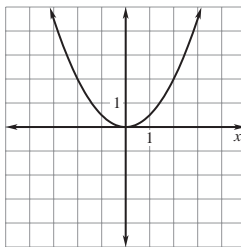
vertices: $(0, \pm 2\sqrt{5});$
co-vertices: $(\pm 2, 0);$
foci: $(0, \pm 4)$

6. $\frac{x^2}{24} + \frac{y^2}{64} = 1;$

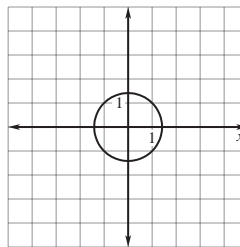


vertices: $(0, \pm 8);$
co-vertices: $(\pm 2\sqrt{6}, 0);$
foci: $(0, \pm 2\sqrt{10})$

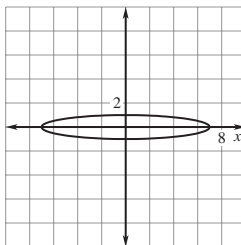
7.



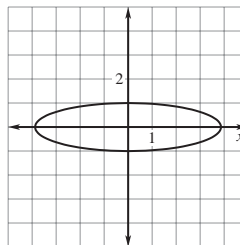
8.



9.

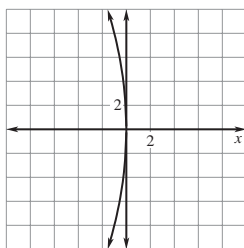


10.

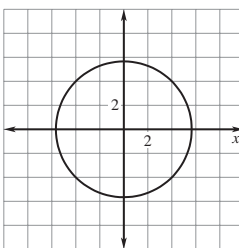


Answer Key

11.



12.



13. $\frac{x^2}{64} + \frac{y^2}{81} = 1$ 14. $\frac{x^2}{16} + \frac{y^2}{9} = 1$

15. $\frac{x^2}{121} + \frac{y^2}{100} = 1$ 16. $\frac{x^2}{1} + \frac{y^2}{49} = 1$

17. $\frac{x^2}{25} + \frac{y^2}{4} = 1$ 18. $\frac{x^2}{1} + \frac{y^2}{169} = 1$

19. $\frac{x^2}{4^2} + \frac{y^2}{(\frac{15}{4})^2} = 1$ or $\frac{x^2}{(\frac{15}{4})^2} + \frac{y^2}{4^2} = 1$

20. $15\pi \text{ in.}^2$