10.8 Answers

32. $(x+3)^{2}+(-3 x)^{2}=25$ $x^{2}-6 x+9+9 x^{2}$
$10 x^{2}+16 x=16$
$10 x^{2}+6 x-16=0$
$\frac{-b \pm \sqrt{b^{2}-4 a c}}{2(a)}=\frac{-6 \pm \sqrt{b^{2}-4(10)(-16)}}{2(10)}$
$=\frac{-685 \sqrt{1876}}{20}=1+-1.6$
$y=-3(1)=-3 \quad(1,-3)$
$y:-3(-1.6)=4.8^{\prime} \quad(-1.6,4.8)$
33.

$$
\begin{aligned}
& \begin{array}{ll}
x^{2}+(3 x)^{2}=5 & =\sqrt{3+(-8)} \\
x^{2}+a x^{2}=5 & =\sqrt{100} \cdot 10
\end{array} \\
& r=\frac{10}{2}=5 \\
& \text { cunter: }\left(\frac{0+0}{2}, \frac{4+(-4)}{2}\right)=(3,0) \\
& \text { 52. }(x-3)^{2} \cdot y^{2} \\
& \begin{array}{l}
\text { 36. } r=\frac{22}{2}=11 \\
\text { center: }(-13,6)
\end{array} \\
& (x+13)^{2}+(y-6)^{2}=11^{2} \\
& (x+13)^{2}+(y-6)^{2}=121
\end{aligned}
$$

