HW 6 Pg. 764 \#2-12 even, 18-20, 24, 30
2. $\frac{(x-8)^{2}}{5^{2}}-\frac{y^{2}}{5^{2}}=1$ Hyperbola
4. $(x-2)^{2}+(y-6)^{2}=13^{2}$ circle
6. $-4 y^{2}+15 x+12 y-8=0$ parabola
$8 \cdot 6 x^{2}=14 x+12 y^{2}-16 y+20$ hyperbola
10. $x^{2}+14 x-12 y+97=0$

$$
y-4=\frac{1}{12}(x+7)^{2}
$$

parabola
12. $16 x^{2}+36 y^{2}+160 x-432 y+1120=0$

$$
\begin{aligned}
& \frac{(x+5)^{2}}{36}+\frac{(y-6)^{2}}{16}=1 \\
& \quad \text { ellipse }
\end{aligned}
$$

18. $12 x^{2}-18 y^{2}-18 x-12 y+12=0$ hyperbola
$19 \cdot 7 x^{2}+28 x-29 y-16=0$
parabola
19. $-12 x^{2}-3 y^{2}+7 x+9 y-5=0$
ellipoe
20. $9 x^{2}+36 y^{2}-72 x-190=0$

$$
\frac{(x-4)^{2}}{36}+\frac{y^{2}}{9}=1
$$

30. $\quad y^{2}+6 x+12 y-6=0$

$$
x-7=-\frac{1}{6}(y+6)^{2}
$$

